

RESTRICTED

IONOSPHERIC DATA

ISSUED
NOVEMBER, 1944

PREPARED BY INTERSERVICE RADIO PROPAGATION LABORATORY
National Bureau of Standards
Washington, D.C.

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IONOSPHERIC DATA

Note.— This IRPL-F series report, issued monthly, serves as one of two current supplements to IRPL Radio Propagation Handbook, Part 1, (War Dept. TM11-499, Navy Dept. DNC-13-1). The supplements of the IRPL-D series, "Basic Radio Propagation Predictions Three Months in Advance," issued earlier in the month, include basic prediction charts, auxiliary charts and nomograms, as well as examples illustrative of their use.

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Magnetic character

Sudden Ionosphere Disturbances. - None observed at
Washington, D.C., during October.

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TERMINOLOGY

Note.- The following symbols are used, conforming to the recommendations of the International Radio Propagation Conference held in Washington, D.C., 17 April to 5 May 1944.

$f^{\circ}F_2$ - ordinary-wave critical frequency for the F2 layer. The term night F layer will no longer be used. The term F2 layer is now used for the night F layer as well as the daytime F2 layer.

$f^{\circ}F_1$ - ordinary-wave critical frequency of the F1 layer.

$f^{\circ}E$ - ordinary-wave critical frequency of the E layer.

$h'F_2$ - minimum virtual height of the F2 layer.

$h'F_1$ - minimum virtual height of the F1 layer.

$h'E$ - minimum virtual height of the E layer.

fEs - highest frequency of Es reflections.

M - maximum usable frequency factor, to be followed by the distance in km.
Example: M3500 represents 3500-km maximum usable frequency factor.

muf - maximum usable frequency.

[] - interpolated value.

() - doubtful value.

A - characteristic not measurable because of blanketing by sporadic E.

B - characteristic not measurable because of loss of trace due to absorption.

- characteristic not in the range of equipment failure or interference.
- D - characteristic higher than upper limit of recorder.
- E - characteristic less than lower limit of recorder.
- F - spread echoes.
- G - $f^oF2 \leq f^oF1$.
- H - stratification observed within region.
- J - ordinary-wave critical frequency deduced from measured extraordinary-wave critical frequency.
- K - ionosphere storm in progress.

MONTHLY AVERAGES AND MEDIAN VALUES OF IONOSPHERIC DATA.

The tables and graphs of ionospheric data presented here are assembled by the Interservice Radio Propagation Laboratory for analysis and correlation principally incidental to IIRPL predictions of radio propagation conditions. These data are furnished by the following:

Carnegie Institution of Washington (Department of Terrestrial Magnetism)

Paffin Is., Canada

Fairbanks, Alaska (University of Alaska, College, Alaska)

Reykjavik, Iceland

Maui, Hawaii

Trinidad, Brit. West Indies

Huancayo, Peru

Watheroo, W. Australia

British National Physical Laboratory, and Inter-Service Research Station

Radio Research Station, Slough, England

Great Baddow, England

Burghead, Scotland

Delhi, India

Australian Council for Scientific and Industrial Research.

Radio Research Board, Australia

Brisbane, Q., Australia

Mt. Stromlo, Canberra, A.S.N., Australia.

Canadian Department of National Defence, Naval Service

Churchill, Canada

Ottawa, Canada.

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1. List of Radio Research Committees

Admiralty Is.

Christchurch (Canterbury University College, New Zealand)

Campbell Is.

People's Commissar for Postal and Electric Communications, Moscow, U.S.S.R.
Tomsk, U.S.S.R.
Sverdlovsk, U.S.S.R.

National Bureau of Standards, Washington, D.C.
Stanford University, (San Francisco), California.
Louisiana State University, Baton Rouge, Louisiana.
University of Puerto Rico, San Juan, P.R.

For their timely value, some of the tables presented are provisional data received by telephone or telegraph in which there may be small or infrequent errors. When final values are available such errors will be corrected in later issues of this report.

The final values presented, both in tabular and graphical form, although correct for the quantities stated, as reported to this laboratory, may sometimes lead to an erroneous conception of typical values for the quantity under consideration. Standard scaling practice, following recommendations of the International Radio Propagation Conference held in Washington, D.C., 17 April to 5 May, 1944, is not yet universal, deviation from standard practice being most common in the cases of records where spread echos are present. Even when standard scaling practice is used, intrinsically misleading results may arise from the monthly average being determined from only a few observations during the month. Two frequent types of such error, both particularly typical of stations in far northern or far southern latitudes are:

(a) Erroneously high values of monthly average critical frequencies caused by the frequent absence of record for cases where the critical frequency is below the lower frequency limit of the recorder. A median, rather than a mean, value of the critical frequency is more significant in such cases, the median being that for all times at which observations were made, the cases of such inability to read the records being counted as less than the lower frequency limit of the apparatus.

(b) Erroneously high values of monthly average F2-layer critical frequencies caused by the frequent occurrence of cases where the F1-layer critical frequency exceeds that of the F2-layer. This is characteristic of summer months during sunspot-cycle minimum, particularly in northern latitudes. In this case, also, median values are more significant than mean values, the median being that for all cases where observations are made, those cases where missing values result because of higher $f^{\circ}F_1$ being counted as less than the $f^{\circ}F_1$. When, as is often the case, no great discrepancy is likely to exist between $f^{\circ}F_1$ and $f^{\circ}F_2$, a typical value of $f^{\circ}F_2$ may be obtained by taking the monthly average of observed $f^{\circ}F_2$ together with observed $f^{\circ}F_1$ for the cases where no $f^{\circ}F_2$ could be measured.

The discrepancy between predicted and observed values of monthly average critical frequencies, particularly for far northern stations, is frequently because of the above reasons, the predictions being intended to represent typical values for the location under consideration.

It may be noted by inspection of the figures presenting comparison of data received for the months of August, September, and October with IRPL predictions made four months in advance, that, generally, the predictions have been in error by being too low, especially in temperate latitudes.

These predictions are based on average trends of solar activity as measured by sunspot number. In the past few months this activity has been somewhat abnormally high. Occurrence of both sunspots and calcium flocculi during the past few months has been slightly more frequent at high than at low solar latitudes, indicating that perhaps the sunspot minimum has just been passed.

Because of great fluctuations in solar activity, however, an observation period of but a few months is so short as to render a final conclusion as to this premature as yet.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D.C., follow the scaling practices recommended by the International Radio Propagation Conference held in Washington, D.C., 17 April to 5 May 1944. (Cf. IRPL-C61, pp.36-39).

Because of the high variability of observed fEs, mean values are of little practical significance and are not given here.

Mean values of other quantities are given for all days of the month as well as for quiet days only. The criteria for selecting periods of ionospheric storminess, whose data are deleted in obtaining the mean values for quiet days only, are presented in IRPL-R5, "Criteria for Ionospheric Storminess", available to authorized persons upon request to the Chief of IRPL, National Bureau of Standards, Washington 25, D.C.

In determining the median values included in Tables 43 through 55, the following procedure has been adopted:

For all characteristics: Where the value is missing because of A, B, or C (see Terminology, above), that hour is omitted from the median count.

In addition,

For critical frequencies:

For all layers, where a value is missing because of E (see Terminology, above), it is counted as less than the lower limit of the recorder.

If the values of $f^{\circ}E$ and $f^{\circ}F_1$ are missing at the beginning or end of the diurnal curve, they are counted as less than the median frequency.

For virtual heights:

Values missing for any reason are omitted from the median count.

For muf factors:

Values missing for any reason are omitted from the median count.

IONOSPHERE DISTURBANCES

Table 56 presents ionospheric character figures and principal storms observed at Washington, D.C., during October 1944, as determined by the criteria presented in IRII-R5, cited above, together with American magnetic K-figures which are usually covariant with them.

ERRATA

1. In the previous (October) issue of this report, page 3, line 39, should be "Delhi, India . . . Table 56."

2. In the previous (October) issue of this report, page 7, paragraph 1, first line, should be "These predictions are based on average trends of solar activity as . . ."

3. In the report IRII-R2, "The Prediction of Usable Frequencies over a Path of Short or Medium Length, Including the Effects of Es," the times designated in column (1) of Table 1 should be GCT.

Table 1

Baffin Island, Canada (70.5°N, 66.6°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	285	2.58						3.4
01	286	2.35						3.7
02	287	2.20						4.3
03	285	2.45				2.5		
04	281	2.54				2.0		3.5
05	272	2.83				3.0		3.2
06	259	3.09				2.5		3.1
07	251	3.64						3.1
08	247	4.13						3.0
09	255	4.40						3.1
10	262	4.62						3.1
11	269	4.42	251	3.11				3.0
12	255	4.89	228	3.27				3.0
13	256	4.87	225	3.13				3.0
14	253	4.73						3.0
15	243	4.61						3.0
16	244	4.60						3.0
17	239	4.62						3.0
18	243	4.15						3.0
19	243	3.96						3.1
20	253	3.43						3.1
21	257	3.24						3.3
22	274	2.97						3.2
23	274	2.91						3.3

Time: 75°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 2

Delhi, India (28.6°N, 77.2°E) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								
01		2.9						
02		3.0						
03		2.9						
04		2.6						
05		2.6						
06		2.7						
07		4.1						
08		6.1						
09		7.3						
10		8.7						
11		9.4						
12		10.6						
13		11.1						
14		11.1						
15		10.0						
16		8.8						
17		7.6						
18		5.8						
19		4.1						
20		4.0						
21		3.3						
22		3.1						
23		3.1						

Time: 75°E.

Table 3

Maui, Hawaii (20.8°N, 156.5°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	272	3.52						3.1
01	247	3.76						3.4
02	244	3.32						3.4
03	235	3.26						3.4
04	245	3.07						3.5
05	253	2.66						3.1
06	271	2.72						3.1
07	226	5.74			120	2.20		3.1
08	232	7.09	221	4.17	115	2.69		3.1
09	257	7.32	205	4.60	114	2.98		3.1
10	287	9.11	208	4.77	113	3.16		3.1
11	287	10.60	203	4.80	113	3.33		3.1
12	290	11.53	204	4.83	113	3.40		3.1
13	296	12.58	205	4.84	113	3.40		3.1
14	277	13.33	205	4.66	111	3.27		3.2
15	253	12.83	209	4.49	110	3.13		3.3
16	234	11.52	219	4.20	103	2.83		3.4
17	232	9.76	227	3.50	112	2.40		3.5
18	206	7.79						3.6
19	209	5.02						3.5
20	248	3.85						3.0
21	283	3.57						3.0
22	271	3.63						3.1
23	277	3.47						3.0

Time: 150°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 4

Trinidad, British West Indies (10.6°N, 61.3°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	258	4.35						3.1
01	248	4.29						3.3
02	250	3.52						3.3
03	266	3.10						3.2
04	269	2.83						3.1
05	238	2.91						3.1
06	243	4.01						3.3
07	24	6.10	245	3.5		2.35		3.4
08	27	7.47	237	4.2	110	3.62		3.2
09	29	7.47	232	4.3	107	3.13		3.1
10	23	8.47	22	4.0	107	3.33		3.1
11	36	9.47	22	4.0	107	3.39		3.0
12	267	9.78	21	4.0	107	3.44		3.1
13	290	10.30	21	4.0	106	3.38		3.1
14	287	9.67	22	4.0	106	3.17		3.1
15	281	9.43	232	4.3	106	2.56		3.1
16	260	9.17	231	3.8	106	2.56		3.2
17	2	8.32	230	2.7		2.56		3.2
18		6.87						3.2
19		5.62						3.3
20		4.47						3.1
21	2	3.86						2.5
22	319	3.85						2.6
23		4.24						2.6

Time: 60°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 5

Brisbane, Q., Australia (27.5°S, 153.0°E) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		5.1						3.1
01		4.8						3.3
02		4.2						3.3
03		3.6						3.2
04		3.4						3.1
05		3.6						3.2
06		4.7						3.4
07		5.8						3.4
08		6.6						3.3
09		7.4						3.3
10		7.6						3.2
11		7.6						3.2
12		7.8						3.2
13		7.6						3.2
14		7.4						3.2
15		7.2						3.3
16		7.0						3.3
17		6.6						3.4
18		6.2						3.3
19		6.0						3.1
20		5.6						3.1
21		5.5						3.0
22		5.4						3.1
23		5.3						3.1

Time: 1500Z.

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Table 7

Mt. Stromlo, N.S.W., Australia (35.3°S, 149.0°E) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		4.5						3.0
01		4.3						3.2
02		3.8						3.2
03		3.4						3.1
04		3.3						3.0
05		3.5						3.1
06		4.5						3.3
07		5.2						3.1
08		5.8						3.2
09		6.5						3.2
10		6.7						3.2
11		6.9						3.3
12		6.8						3.3
13		6.8						3.2
14		6.8						3.2
15		6.7						3.3
16		6.2						3.3
17		5.8						3.3
18		5.8						3.3
19		5.7						3.2
20		5.3						3.1
21		5.3						3.0
22		5.0						3.0
23		4.8						3.0

Time: 1500Z.

Length of time sweep: 1.6 Mc to 12.5 Mc in two minutes.

Table 6

Matheroo, Western Australia (30.3°S, 115.9°E) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		3.9						2.9
01		3.8						3.0
02		3.6						3.1
03		3.3						3.0
04		3.2						3.0
05		3.5						3.1
06		4.6						3.3
07		5.2						3.2
08		5.6						3.1
09		6.0						3.0
10		6.5						3.0
11		6.9						3.0
12		7.3						3.1
13		7.3						3.1
14		7.0						3.1
15		6.5						3.2
16		6.2						3.2
17		5.9						3.2
18		5.6						3.2
19		5.2						3.0
20		4.5						3.0
21		4.2						2.9
22		4.1						2.8
23		4.0						2.9

Time: 1200Z.

Length of time sweep: 1.6 Mc to 0.5 Mc in fifteen minutes.

Table 8

Christchurch, N.Z. (43.5°S, 172.6°E) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	260	3.85						
01	258	3.67						
02	256	3.43						
03	223	3.27						
04	258	2.85						
05	241	2.95						
06	230	4.04						
07	245	4.62	216	3.52				
08	278	5.14	212	3.85				
09	293	5.53	205	4.11				
10	290	5.98	202	4.12				
11	286	6.01	197	4.13				
12	294	6.31	197	4.15				
13	279	6.39	207	4.17				
14	276	6.09	200	4.12				
15	267	5.77	205	3.94				
16	248	5.76	208	3.84				
17	228	5.51						
18	229	5.40						
19	229	5.47						
20	243	5.36						
21	247	4.79						
22	254	4.53						
23	259	3.94						

Time: 1725Z.

Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

Table 9

Delhi, India (28.6°N, 77.2°E) September, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		3.4						
01		3.1						
02		3.1						
03		2.9						
04		2.8						
05		2.6						
06		4.2						
07		6.2						
08		6.7						
09		6.9						
10		7.4						
11		8.7						
12		9.5						
13		10.2						
14		10.4						
15		10.3						
16		9.6						
17		8.2						
18		7.5						
19		6.1						
20		5.2						
21		4.0						
22		3.8						
23		3.6						

Time: 75°E

Table 10

Fairbanks, Alaska (64.9°N, 147.8°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	312	2.13					4.3	2.9
01	309	2.25					4.7	2.9
02	321	2.22					3.5	2.9
03	316	2.10					3.6	2.9
04	317	2.10					3.3	2.9
05	313	2.17					3.5	2.9
06	277	2.25				1.27	2.8	3.1
07	251	3.26			103	1.63	2.7	3.2
08	245	4.15			103	1.94	2.4	3.2
09	251	4.70		2.97	103	2.19		3.2
10	265	5.12		3.24	103	2.29		3.2
11	254	5.41		3.31	103	2.33	2.4	3.3
12	258	5.57		3.44	103	2.35		3.3
13	246	5.60		3.21	103	2.22	2.4	3.3
14	240	5.56		3.05	103	2.08	2.4	3.3
15	239	5.39		200	103	1.87	2.1	3.3
16	232	5.14			103	1.60		3.3
17	232	4.57					1.6	3.3
18	242	3.64					1.6	3.2
19	251	2.83					3.0	3.2
20	275	2.25					3.2	3.2
21	269	1.98					3.0	3.1
22	281	1.86					3.0	3.1
23	319	1.86					3.9	3.0

Time: 150°W.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 11

Reykjavik, Iceland (64.1°N, 21.7°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00							4.2	
01							4.2	
02							5.0	
03							3.6	
04								
05	272	2.90						3.2
06	305	2.60						3.2
07	244	3.16						3.3
08	218	4.01						3.3
09	210	4.82						3.3
10	214	5.28			118	2.20		
11	215	5.66			115	2.52		
12	214	5.72			116	2.52		
13	223	5.82			106	2.63		
14	224	5.17			113	2.53		
15	214	5.52						3.3
16	215	5.22						3.2
17	204	5.04						3.2
18	208	4.90						3.0
19							3.0	
20							4.1	
21							4.0	
22							4.9	
23							3.2	

Time: 15°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 12

Churchill, Canada (58.8°N, 94.2°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	326	3.4					6.0	
01							5.0	
02	304	4.1					4.0	
03	297	3.4					4.3	
04	295	4.0					3.9	
05	350	3.5					4.4	
06	333	3.7					4.3	
07	294	3.8					3.8	3.2
08	274	4.6					3.6	3.2
09	282	5.0			118	3.0		3.2
10	293	5.3		3.3	111	2.9		3.2
11	289	5.5		3.6	114	2.7		3.1
12	303	5.7		3.7	112	2.7		3.2
13	308	5.9		3.7	114	2.6		3.1
14	294	6.0		3.7	114	2.7		3.1
15	284	6.2		3.4	118	2.7		3.1
16	283	6.1		3.2	120	2.8		3.2
17	276	5.6			124	2.6		3.0
18	305	4.6			122	2.9		3.1
19	306	4.2			114	2.3	3.5	3.0
20	330	3.8			123	2.3	3.4	3.0
21	295	4.0			116	2.3	4.0	2.9
22	307	3.6					6.0	
23	336	3.7					6.0	

Time: 90°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 13

Burghead, Scotland (57.7°N, 3.5°W)

October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M3000	F2s
00		2.74						
01		2.81						
02		2.61						
03		2.59						
04		2.27						
05		2.42						
06		2.46						
07		3.52						
08		4.60						
09		5.17						
10		5.53						
11		5.81						
12		5.91						
13		5.85						
14		5.83						
15		5.81						
16		5.64						
17		5.70						
18		5.57						
19		4.83						
20		3.91						
21		3.28						
22		3.08						
23		3.00						

Time: 00

Table 15

Ottawa, Canada (45.5°N, 75.8°W)

October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M3000	F2s
00	350	2.7					2.9	2.9
01	364	2.7					3.1	3.1
02	362	2.6					3.1	3.1
03	366	2.7					3.0	3.0
04	382	2.5					3.0	3.0
05							3.0	3.0
06	284	3.3	260	2.9			3.2	3.2
07	242	4.2	226	3.2	122		3.4	3.4
08	250	5.4	210	3.6	126	2.6	3.4	3.4
09	275	5.8	206	3.9	119	2.7	3.3	3.3
10	282	6.2	201	4.1	118	2.9	3.2	3.2
11	287	6.5	207	4.2	116	3.0	3.2	3.2
12	286	6.7	212	4.2	117	3.0	3.3	3.3
13	282	6.7	217	4.1	117	2.9	3.2	3.2
14	272	6.8	222	3.9	120	2.8	3.2	3.2
15	260	6.5	226	3.7	123	2.6	3.2	3.2
16	244	6.3	230	3.1	128	2.5	3.3	3.3
17	234	6.0	245				3.3	3.3
18	245	5.2					3.1	3.1
19	251	4.6					2.4	2.4
20	268	3.8					2.6	2.6
21	288	3.4					3.0	3.0
22	306	3.1					2.9	2.9
23	327	2.8					3.0	3.0

Time: 750W.

Length of time sweep: 1.93 Mo to 13.5 Mo. Manual operation.

Table 17

Table 14

Great Baddow, England (51.7°N, 0.5°W)

October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M3000	F2s
00		3.0						2.6
01		3.0						2.6
02		2.9						2.8
03		2.3						2.8
04		2.2						2.5
05		2.1						3.0
06		2.8						3.2
07		4.2				1.7		3.3
08		5.4				2.2		3.5
09		5.3				2.4		3.5
10		6.2				2.7		3.5
11		6.3				2.7		3.4
12		6.4				2.7		3.4
13		6.4				2.7		3.4
14		6.2				2.5		3.4
15		6.1				2.3		3.4
16		6.1				2.3		3.5
17		6.0				1.7		3.4
18		5.8						3.2
19		5.0						3.2
20		3.8						3.1
21		3.1						2.9
22		3.0						2.8
23		3.0						2.3

Time: 00

Length of time sweep: Manual operation.

Slough, England (51.5°N, 0.6°W)

Noon f°F2 = 6.20 Mc.

Table 16

Washington, D.C. (39.0°N, 77.5°W)

October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	F2-M3000	F2s
00	284	2.74						2.94
01	281	2.74						3.3
02	276	2.66						3.1
03	264	2.64						3.03
04	263	2.54						3.2
05	263	2.48						3.3
06	249	2.81						3.3
07	234	4.77				1.80		3.0
08	242	5.58	217	3.45	120	2.35		3.3
09	262	5.98	211	3.82	118	2.66		3.4
10	272	6.27	206	4.04	116	2.87		3.2
11	281	6.70	207	4.17	118	3.02		3.3
12	282	7.07	212	4.24	116	3.08		3.2
13	278	7.18	218	4.15	115	3.07		3.2
14	275	7.07	224	4.04	115	2.94		3.2
15	269	7.03	229	3.83	113	2.71		3.2
16	246	6.74	224	3.49	115	2.82		3.1
17	230	6.16			117	1.84		3.0
18	230	5.30						3.0
19	237	4.38						3.1
20	256	3.70						3.2
21	268	3.24						2.8
22	277	3.12						2.9
23	276	2.83						3.0

Time: 750W.

Length of time sweep: 0.8 Mo to 14.0 Mo in two minutes.

Table 17

San Francisco, California (37.4°N, 122.2°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	263	3.32					2.5	3.0
01	263	3.44					2.4	3.0
02	259	3.45					2.7	3.1
03	257	3.42						3.0
04	255	3.38						3.1
05	257	3.40						3.1
06	248	3.66					2.4	3.2
07	233	5.87	220	3.00	110	1.97	2.5	3.4
08	233	6.60	211	3.50	108	2.45	3.3	3.4
09	254	6.59	212	4.01	108	2.82	3.5	3.4
10	273	7.28	199	4.18	106	3.05	3.3	3.3
11	273	7.86	204	4.28	105	3.13	3.3	3.3
12	282	8.10	211	4.27	104	3.17		3.2
13	271	8.10	217	4.32	103	3.15		3.3
14	269	7.98	219	4.15	103	3.01	3.2	3.3
15	253	7.58	223	3.89	105	2.79	3.3	3.4
16	238	6.98	227	3.32	108	2.36	3.2	3.4
17	222	6.06	230	2.35	113	1.86	2.6	3.5
18	212	4.50					2.6	3.4
19	220	3.78					2.6	3.3
20	225	3.03					2.6	3.3
21	260	2.89					2.7	3.0
22	258	3.28					2.6	3.0
23	260	3.31					2.6	3.0

Time: 1200W.

Length of time sweep: 0.8 Mc to 12 Mc in six minutes. Record centered on the hour.

Table 19

San Juan, Puerto Rico (18.4°N, 66.1°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		3.77						2.9
01		3.93						3.1
02		3.82						3.2
03		3.64						3.2
04		3.23						3.1
05		2.95						3.0
06		3.17						3.0
07	256	5.41		3.00				3.4
08	271	6.44	233	3.88		2.37		3.2
09	287	6.90	223	4.11		3.04		3.2
10	301	7.51	226	4.37		3.24		3.1
11	296	7.81	229	4.47		3.35		3.1
12	304	8.33	222	4.47		3.33		3.0
13	291	9.15	225	4.43		3.35		3.0
14	284	9.23	233	4.36		3.30		3.1
15	273	8.82	229	4.15		3.13		3.2
16	263	8.18	234	3.92		2.93		3.2
17	246	7.52	235	3.48				3.3
18	233	6.20						3.4
19	250	4.61						3.3
20		3.80						3.0
21		3.59						2.9
22		3.55						2.8
23		3.60						2.9

Time: 600W.

Length of time sweep: 3 Mc to 12 Mc in eleven minutes. Record centered on the hour.

Table 18

Baton Rouge, Louisiana (30.5°N, 91.2°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	304	3.35						3.0
01	300	3.41						3.0
02	294	3.51						3.0
03	284	3.60						3.1
04	280	3.43						3.1
05	284	3.25						3.1
06	276	3.78						3.2
07	282	5.84	246	3.33	135	2.08		3.4
08	286	6.03	240	3.61	128	2.50		3.3
09	298	6.40	239	4.38	121	2.86		3.2
10	310	7.02	240	4.53	120	3.05		3.1
11	314	7.85	239	4.57	120	3.16		3.1
12	306	8.42	241	4.56	120	3.19		3.0
13	305	8.71	251	4.56	120	3.18		3.1
14	294	8.53	252	4.50	120	3.05		3.1
15	286	8.26	250	4.26	124	2.82		3.2
16	274	7.40	251	3.60	130	2.38		3.2
17	250	6.71			130	2.05		3.3
18	238	5.30						3.3
19	252	3.97						3.2
20	291	3.24						3.0
21	316	3.13						3.0
22	311	3.30						2.9
23	309	3.27						2.9

Time: 900W.

Length of time sweep: 1.9 Mc to 9.8 Mc in three minutes, thirty seconds. Record centered on the hour.

Table 20

Huancayo, Peru (12.0°S, 75.3°W) October, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	257	6.35						3.1
01	244	5.81						3.2
02	244	4.67						3.3
03	250	3.69						3.3
04	255	3.15						3.3
05	254	2.76						3.2
06	241	5.69				1.97		3.3
07	229	7.59				2.68		3.2
08	294	8.52	216	4.45		3.03		3.2
09	327	8.66	210	4.57		3.39		2.7
10	349	8.38	209	4.65				2.6
11	358	8.03	205	4.67				2.6
12	354	8.07	204	4.64				2.6
13	350	8.12	201	4.60				2.6
14	328	8.47	198	4.50		3.47		2.6
15	301	8.74	197	4.35		3.06		2.7
16	219	8.99	203	4.20		2.72		2.7
17	244	9.04				2.23		2.7
18	264	8.96				1.16		2.3
19	299	8.54						2.7
20	288	8.09						2.8
21	270	7.36						2.9
22	276	7.70						2.9
23	272	7.34						3.0

Time: 750W.

Length of time sweep: 15 Mc to 0.5 Mc in fifteen minutes.

Table 21

Kormadec Islands (29.2°S, 177.9°E) October, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
0010	275	5.38					
0100	256	5.10					
0200	243	4.86					
0310	265	3.78					
0400	281	3.66					
0500	279	3.51					
0600	251	4.96	238	3.01		1.75	
0700	272	6.42	243	3.45	107	2.40	
0800	270	7.41	230	4.19	112	2.81	
0900	269	7.41	220	4.41	110	3.07	
1000	285	7.36	221	4.51	109	3.20	
1100	297	7.80	212	4.61	110	3.32	
1200	291	7.57	209	4.57	110	3.32	
1300	283	7.77	221	4.58	109	3.34	
1400	238	8.66	227	4.45	109	3.23	
1500	233	7.47	227	4.28	111	3.10	
1600	271	7.21	237	3.95	112	2.79	
1700	252	6.87	246	3.31	116	2.29	
1800	243	6.60				1.60	
1900	247	6.41					
2000	273	6.05					
2100	287	5.88					
2200	289	5.77					
2300	283	5.74					

Time: Local.

Length of time sweep: 1.8 Mc to 12.8 Mc. Manual operation.

Table 23

(Corrections and additions to previously issued provisional data)

Fairbanks, Alaska (64.50°N, 147.80°W) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00						4.8	
01						4.4	2.9
02						5.0	
03	328					4.5	
04						3.4	
05						3.0	3.1
06						3.0	
07						3.0	
08						2.8	
09						3.2	
10						3.0	3.0
11						3.0	
12						2.7	
13						3.0	
14						2.9	
15						2.4	
16						2.6	
17						2.4	3.3
18						1.6	
19						3.0	
20						2.8	
21						3.1	
22						3.5	
23						4.5	

Time: 1500W.

Length of time sweep: 1.6 Mc to 0.5 Mc in fifteen minutes.

Table 22

Campbell Island (52.0°S, 169.0°E) October, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00							
01							
02							
03							
04							
05	239	3.67					
06							
07	247	4.57	197	3.67	121	2.54	
08							
09	323	5.12	204	4.38	105	2.90	
10							
11	330	5.79	205	4.40	104	3.13	
12	319	6.31	201	4.27	100	3.07	
13	327	5.83	205	4.21	103	3.00	
14							
15	299	5.66	214	3.97	106	2.78	
16							
17	259	5.81	218	3.20	133	2.29	
18							
19	244	5.56					
20							
21	264	4.68					
22							
23							

Time: Local.

Length of time sweep: 1 Mc to 12 Mc. Manual operation.

Table 24

(Corrections and additions to previously issued provisional data)

Reykjavik, Iceland (64.1°N, 21.7°W) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00						4.3	
01						3.4	
02						4.2	
03						3.6	3.2
04						3.3	
05							
06	238						
07							
08		4.16					
09	224						
10							
11		5.10			2.62		3.2
12							
13		5.12					
14							
15							
16							
17							
18							
19						2.9	3.3
20						3.9	
21						4.1	3.4
22						3.4	
23						3.3	

Time: 1500W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 25

(Additions to previously issued provisional data)

Table 25

(Corrections and additions to previously issued provisional data)

Burghead, Scotland (57.7°N, 3.6°E) September, 1944

Time	h'P2	f°P2	h'P1	f°P1	h'E	f°E	fEs	F2-M3000
00		3.1						
01		2.77						
02		2.58						
03		2.47						
04		2.43						
05		2.58						
06		2.96						
07		3.65						
08		4.01						
09		4.34						
10		4.84						
11		4.91						
12		4.30						
13		4.68						
14		4.99						
15		4.89						
16		4.89						
17		4.53						
18		5.01						
19		4.87						
20		4.02						
21		4.5						
22		4.08						
23		3.47						

Time: 00

Table 27

(Corrections and additions to previously issued provisional data)

Maui, Hawaii (20.9°N, 156.5°E) September, 1944

Time	h'P2	f°P2	h'P1	f°P1	h'E	f°E	fEs	F2-M3000
00		4.08						3.1
01								
02								3.4
03								
04								3.3
05								3.1
06								
07								3.0
08			213					3.4
09								3.5
10								4.0
11	249	8.66						4.2
12								4.5
13								4.4
14	301				4.64			4.2
15					4.46			4.1
16			209					4.0
17	260				3.84			3.8
18								3.4
19		5.53						3.4
20								3.3
21	202							3.2
22								2.3
23								

Time: 150°E

Length of time sweep: 2 mc to 16 mc in one minute.

Table 26

(Additions to previously issued provisional data)

Great Baddow, England (51.7°N, 0.6°E) September, 1944

Time	h'P2	f°P2	h'P1	f°P1	h'E	f°E	fEs	F2-M3000
00								1.5
01								
02								
03								
04								1.4
05								
06								
07					1.7			3.0
08					2.0			3.6
09					2.4			4.4
10					2.7			4.2
11					2.9			
12					2.8			
13					3.0			3.0
14					2.9			3.7
15					4.1			
16					4.0			
17					3.9			
18					3.7			3.0
19					2.4			3.0
20					2.0			3.0
21					1.7			2.4
22								
23								1.8

Time: 00

Length of time sweep: Manual operation.

Slough, England (51.6°N, 0.6°E)

Noon f°P2 = 5.33 Mc.

Table 28

(Corrections and additions to previously issued provisional data)

Trinidad, British West Indies (10.6°N, 61.3°E) September, 1944

Time	h'P2	f°P2	h'P1	f°P1	h'E	f°E	fEs	F2-M3000
00								
01								
02								
03								
04								
05								
06								
07								2.5
08								2.9
09								
10								3.2
11								3.0
12								4.2
13								4.6
14								4.8
15								4.7
16								4.6
17								4.4
18								3.6
19								3.4
20								3.2
21								
22								
23								

Time: 60°E

Length of time sweep: 2 mc to 16 mc in one minute.

Table 24

(Corrections and additions to previously issued provisional data)

Machiguayo, Peru (12.0°S, 75.8°E) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00							
01							
02							
03							
04	252						3.2
05							3.3
06	246						3.2
07							
08							
09							
10							
11							
12							
13							
14							
15	330						2.4
16							3.3
17							3.2
18							
19							
20		7.04					
21							
22							
23	231						2.7

Time 75°E.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 31

(Corrections and additions to previously issued provisional data).

Mt. Stromlo, N.S.W., Australia (35.3°S, 149.0°E) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00	273	3.62					
01	278	3.58					
02	272	3.57					
03	261	3.45					
04	262	3.16					
05	279	2.94					
06	258	3.68					
07	270	4.70					
08	294	5.29					
09	321	5.67					
10	321	5.74					
11	332	6.08					
12	322	6.38					
13	309	6.31					
14	304	6.16					
15	290	5.34					
16	273	5.84					
17	252	5.43					
18	240	5.04					
19	252	4.67					
20	271	4.32					
21	272	4.14					
22	275	3.90					
23	278	3.73					

Time 150°E.

Length of time sweep: 1.6 Mc to 12.5 Mc in two minutes.

Table 32

(Corrections and additions to previously issued provisional data)

Brisbane, Q., Australia (27.5°S, 153.0°E) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00	264	3.96					3.5
01	257	3.83					3.4
02	239	3.73					
03	240	3.11					
04		2.93					
05		2.80					
06		3.83					
07	263	5.23					
08	276	6.03					
09	260	6.56					
10	275	6.63					
11	286	6.51					
12	281	6.64					
13	286	6.42					
14	278	6.26					
15	275	5.37					
16	257	5.52					
17	240	5.19					
18	241	5.00					
19	249	4.71					
20	273	4.38					
21	283	4.35					
22	273	4.30					
23	268	4.11					

Time 150°E

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Table 32

(Corrections and additions to previously issued provisional data)

Christchurch, N.Z. (43.5°S, 172.6°E) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'E	F2-M3000
00							
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Time 172.5°E.

Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

Table 33

(Corrections and additions to previously issued provisional data).

Baffin Island, Canada (70.5°N, 68.6°W)

August, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		3.42						
01								
02								
03								
04		3.39	223					
05		3.78						
06								
07	374	4.24		3.53				
08								
09			230					
10	407	4.42						
11								
12								
13					116			
14	391	4.41		3.71		2.51		
15		4.36						
16								
17		3.35				2.39		
18								
19	240							
20								
21		3.77						
22								
23								

Time: 1500.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 35

Sovetskaya (56.8°N, 61.1°E)

August, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	264	3.6						
01	290	3.3						
02	295	3.1						
03	302	2.9						
04	307	3.1						
05	315	3.6			124	1.8		
06	347	4.1	233	3.5	125	2.05		
07	266	4.4	230	3.6	110	2.4	3.7	
08	328	4.8	213	3.9	103	2.6	4.3	
09	340	5.1	219	4.1	101	2.8	4.4	
10	338	5.2	217	4.1	102	2.9	4.3	
11	334	5.4	212	4.2	102	2.9	4.0	
12	325	5.4	205	4.2	102	3.0	4.0	
13	325	5.4	204	4.2	101	2.9	3.9	
14	315	5.3	206	4.1	103	2.9		
15	302	5.0	211	4.1	100	2.7		
16	280	5.0	217	4.0	105	2.8		
17	260	4.6	220	3.6	103	2.45		
18	248	4.9	225	3.3	120	2.0		
19	248	4.6			123	1.8	1.9	
20	254	4.8					3.4	
21	256	4.8					4.4	
22	267	4.6					3.2	
23	274	4.0						

Time: Local.

Table 34

(Corrections and additions to previously issued provisional data).

Reykjavik, Iceland (64.1°N, 21.7°W)

August, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00							3.3	
01							3.3	
02							4.3	
03							3.5	
04							3.4	
05								
06	216							
07								
08					100			3.2
09			206		100			
10					100			
11					100			
12					100			
13					100			
14					100			
15					103			
16					117			
17			215		110			
18								
19							3.0	
20							3.0	
21							3.0	
22							3.0	
23							3.0	

Time: 1500.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 36

Tonsk, USSR (56.4°N, 85.0°E)

August, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	250	4.7					3.4	
01	255	4.4						
02	260	4.1						
03	270	3.8						
04	270	3.9						
05	270	4.3	240		110	1.7		
06	300	4.8	220	3.9	110	2.0		
07	320	5.2	210	4.2	110	2.3		
08	340	5.4	210	4.5	100	2.6		
09	330	5.5	210	4.7	100	2.8		
10	360	5.8	210	4.8	110	3.0		
11	360	5.9	210	4.65	100	3.2		
12	340	6.2	220	5.0	100	3.3		
13	320	6.1	215	5.0	110	3.1		
14	340	6.0	210	4.8	100	3.1		
15	330	5.9	200	4.9	100	2.9		
16	330	5.9	210	4.65	100	2.7		
17	300	5.6	210	4.5	105	2.5		
18	230	5.7	210	4.1	110	2.3		
19	260	5.7	220	4.0	110	2.0		
20	240	5.8	230		110	1.7		
21	240	5.8					3.9	
22	250	5.4					3.3	
23	250	5.1					3.4	

Time: 900E.

Table 37

(Corrections and additions to previously issued provisional data)

Delhi, India (29.6°N, 77.2°E) August, 1944

Time	h ¹ F2	f ^o F2	h ¹ F1	f ^o F1	h ¹ E	f ^o E	fEs	F2-M3000
00		3.44						
01		3.48						
02		3.21						
03		2.93						
04		2.87						
05		2.86						
06		4.19						
07		5.39						
08		5.39						
09		6.04						
10		6.50						
11		7.56						
12		8.30						
13		9.47						
14		9.69						
15		9.64						
16		9.36						
17		8.72						
18		7.51						
19		6.58						
20		5.40						
21		4.43						
22		4.02						
23		3.66						

Time: 75°E.

Table 39

(Corrections and additions to previously issued provisional data)

Mt. Stromlo, N.S.W., Australia (35.3°S, 149.0°E) August, 1944

Time	h ¹ F2	f ^o F2	h ¹ F1	f ^o F1	h ¹ E	f ^o E	fEs	F2-M3000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

278

Table 38

(Corrections and additions to previously issued provisional data)

Brisbane, Q., Australia (27.5°S, 153.0°E) August, 1944

Time	h ¹ F2	f ^o F2	h ¹ F1	f ^o F1	h ¹ E	f ^o E	fEs	F2-M3000
00								
01								
02								
03		3.38						
04								
05								
06								
07								
08			244					
09			237					
10			229					
11			218					
12		5.98	210					
13								
14								
15			222				2.5	
16			217				3.5	
17								
18							3.1	
19							3.0	
20								
21								
22								
23								

Time: 150°E.

Length of time sweep: 2.2 hr to 12.5 hr in two minutes, thirty seconds.

Table 40

(Corrections and additions to previously issued provisional data)

Baffin Island, Canada (70.5°N, 68.6°W) July, 1944

Time	h ¹ F2	f ^o F2	h ¹ F1	f ^o F1	h ¹ E	f ^o E	fEs	F2-M3000
00								
01								
02								
03								
04								
05	293	3.94	206					
06	332			3.51				
07	374	4.28						
08		4.28						
09								
10		4.56				2.76		
11								
12								
13								
14		4.38	203					
15								
16								
17								
18								
19					3.55	118	2.48	
20	274							
21	244	3.99						
22	225							
23								

Time: 75°W.

Table 41

(Corrections and additions to previously issued provisional data)

Baffin Island, Canada (70.5°N, 63.6°W) June, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		3.71						
01				2.82				
02								
03					140			
04	309					2.40		
05								
06	405	3.92						
07	432	4.14			117			
08	405			3.76				
09								
10	348	4.81			112			
11	372		214	3.88				
12								
13		4.40						
14								
15								
16								
17			206	3.60				
18					134			
19		4.10		3.23	137			
20								
21								
22								
23								

Time: 75%.
Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 42

(Corrections and additions to previously issued provisional data)

Baffin Island, Canada (70.5°N, 68.6°W) May, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								
01	241							
02								
03			225					
04		3.74	216					
05				3.28				
06	390							
07		4.25			123			
08				3.47				
09				3.61				
10				3.85				
11		4.60	206	3.30				
12	373			3.86				
13	406							
14				3.78				
15			210					
16					120			
17		4.31	213	3.57				
18								
19		3.99						
20		3.60						
21								
22								
23								

Time: 75%.

Length of time sweep: 2 Mc to 16 Mc in one minute.

TABLE 43

IONOSPHERE DATA-1

Washington, D.C.

Ionosphere Station

(Location)

National Bureau Of Standards

(Institution)

Hourly values of $h'F_2$ in μ for October 1944
(Month)

Records measured by: S.M.O.
H.P.G.

RESTRICTED

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean
1	260	260	240	280	270	260	240	240	260	260	320	320	300	310	280	260	260	240	220	220	240	250	260	260	6240	
2	280	280	280	260	(300)	[280] ^A	240	250	260	260	320	320	300	310	280	260	260	240	220	220	C	260	260	280	5020	
3	280	C	C	C	C	C	C	C	C	C	300	280	280	280	290	280	280	240	240	240	260	260	280	260	4050	
4	280	280	(300)	280	240	260	240	240	240	260	270	290	280	280	280	280	280	240	220	220	260	270	280	280	6290	
5	280	260	260	260	240	260	240	240	240	260	260	280	280	280	280	270	260	240	220	220	260	280	280	280	6220	
6	270	280	270	240	240	240	240	240	260	260	280	270	280	280	270	270	260	240	220	220	250	240	260	260	6140	
7	280	280	280	[270] ^A	270	280	250	240	280	280	280	310	[320] ^A	300	280	280	240	240	220	220	240	260	280	270	6470	
8	300	(310)	300	280	260	240	230	220	260	260	260	300	300	280	280	280	260	230 ^H	220	220	240	260	280	300	6330	
9	300	310	(300)	240	250	260	240	240	260	250	260	280	300	280	300	280	240	220	220	220	240	250	280	260	6280	
10	280	280	280	260	260	260	240	240	240	260	270	300	300	280	280	260	260	240	230	240	280	300	280	300	6420	
11	280	280	260	(250)	240	280	[250] ^A	240	270	280	300	340 ^K	360 ^K	340 ^K	320 ^K	330 ^K	280 ^K	300 ^K	[290] ^K	290 ^K	300 ^K	290 ^K	300 ^K	320 ^K	6990	
12	300 ^K	300 ^K	(340) ^K	A ^K	A ^K	A ^K	290	260	(230)	300	280	[290] ^K	290	290	280	280	260	240	240	240	270	240	240	(270)	5750	
13	310	(320)	300	280	280	270	(250)	220	240	260	280	280	300	260	270	280	250	240	240	240	260	280	280	260	6460	
14	270 ^K	280 ^K	(280) ^K	(280) ^K	300 ^K	280 ^K	280 ^K	260 ^K	310 ^K	360 ^K	300 ^K	280 ^K	300 ^K	290 ^K	280 ^K	300 ^K	280 ^K	240 ^K	260 ^K	220 ^K	240 ^K	300 ^K	280 ^K	250 ^K	6520	
15	280 ^K	280 ^K	280 ^K	280 ^K	(300) ^K	280 ^K	260	240	240	260	300	280	280	260	260	260	240	220	220	240	260	260	280	260	6340	
16	280	280	260	260	280	260	260	230	230	260	280	260	260	260	280	270	240	240	240	260	280	280	280	280	6300	
17	280	260	280	280	(280)	(300)	280	240	240	230	280	270	260	260	270	250	240	220	220	220	260	280	280	280	6310	
18	280	290	280	280	260	240	240	240	240	240	300	300	260	260	260	260	240	220	220	220	260	[270] ^A	300	280	6240	
19	280	260	280	260	250	260	240	240	240	250	260	280	280	280	280	260	240	220	220	220	260	270	280	280	6190	
20	280	260	280	240	240	260	260	220	240	(270)	260	260	270	280	280	260	240	220	240	240	230	240	280	260	6110	
21	260	270	(280)	(260)	270	260	220	220	230	240	240	280	260	280	270	260	240	220	220	220	240	280	280	270	6070	
22	280	280	260	260	260	260	240	220	220	240	250	280	300	280	280	260	240	220	220	210	260	260	300	290	6170	
23	290	260	240	220	240	260	(260)	220	230	260	260	260	260	260	280	250	240	240	240	240	260	260	260	280	6070	
24	(300) ^K	300	260	260	260	240	240	220	240	240	250	280	270	260	260	260	230	200	220	220	240	260	260	280	6130	
25	[290] ^K	280	270	260	260	260	240	240	240	260	260	260	260	280	260	250	220	210	220	220	(250)	280	310	(310)	6190	
26	(290)	280	270	260	260	240	230	220	220	240	260	260	280	280	270	260	220	220	230	220	260	280	260	260	6070	
27	280	(320)	310	290	280	[280] ^K	(300)	240	240	240	260	280	260	260	260	260	240	220	220	240	260	250	260	270	6320	
28	280	280	240	240	240	240	240	220	220	260	260	260	240	260	260	260	240	220	220	240	250	260	260	260	5950	
29	300	260	260	280	260	250	240	240	230	240	250	270	260	260	260	260	240	220	220	240	260	280	280	280	6130	
30	300	270	260	260	250	280	240	240	260	240	260	260	260	260	260	260	230	220	220	240	220	260	280	280	6090	
Sum	8820	8430	8280	7650	7620	7620	7480	7020	7250	7860	8450	8720	8730	8630	8520	8080	7380	6910	6890	7120	7670	8320	8600	8570	190620	
Mean ¹	284	281	276	264	263	263	249	234	242	262	272	281	282	278	275	269	246	230	230	237	256	268	277	276		
Mean ²	284	280	273	262	260	261	248	233	239	259	272	279	278	276	273	266	244	227	225	234	254	265	277	276		
Median	280	280	280	260	260	260	240	240	260	260	270	280	280	280	280	280	240	220	220	240	260	260	280	280		

¹For all days of the month²For quiet days $h'F_2$

October, 1944

TABLE 44

IONOSPHERE DATA-2

Washington, D.C. Ionosphere Station

National Bureau of Standards

Hourly values of f^oF_2 in $^{\circ}$ for October 1944
(Month)Records measured by: S.M.O.
H.P.G.

RESTRICTED

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean
1	2.6	2.5	2.3	2.3	2.4	2.4	3.2	5.1	5.8	5.6	6.2	6.4	6.3	6.8	7.1	6.9	6.6	6.2	6.4	4.9	4.1	3.6	3.2	2.7	111.6	
2	2.4	2.2	2.4	2.5	2.2	2.3	3.4	4.4	5.4	5.4	5.2	5.9	6.1	6.3	6.6	6.0	5.9	6.1	5.1	4.7	4.6	3.4	3.3	3.2	70.6	
3	2.3	C	C	C	C	C	C	C	C	C	6.0	6.7	7.0	6.9	6.4	6.0	6.8	6.4	5.5	3.7	3.1	3.0	3.2	3.0	77.6	
4	2.8	3.0	2.8	2.6	2.6	2.7	3.6	5.4	5.6	5.6	6.6	6.5	7.1	7.3	7.0	7.2	7.1	6.8	6.5	5.3	4.2	3.3	3.1	3.2	110.8	
5	3.0	3.0	2.9	2.8	2.7	2.4	3.3	5.1	5.5	6.2	6.4	7.1	7.3	7.0	7.2	7.1	8.2	7.4	6.5	5.7	4.5	4.3	4.1	3.7	117.4	
6	3.1	3.0	3.0	3.1	2.9	2.7	3.3	4.8	6.4	6.6	6.5	7.0	7.2	7.5	7.8	7.8	8.2	7.4	6.5	5.7	4.5	4.3	4.1	3.7	127.4	
7	3.6	3.7	3.2	3.2	2.8	2.4	2.9	4.5	4.7	5.1	5.8	5.6	6.0	6.6	7.0	7.0	7.4	5.9	5.2	4.5	3.8	3.1	3.1	2.7	129.6	
8	2.7	2.5	2.6	2.6	2.3	2.3	3.0	4.9	5.7	5.6	5.5	5.1	6.2	6.4	6.9	6.9	7.1	6.6	5.4	4.8	3.9	3.1	2.7	2.5	107.3	
9	2.4	2.6	2.8	2.7	2.6	2.7	3.2	5.6	5.8	5.6	6.2	6.0	6.6	7.1	7.1	7.2	7.2	6.8	6.0	4.3	3.1	2.5	2.4	2.3	110.2	
10	2.3	2.4	2.4	2.4	2.6	2.7	3.0	5.0	5.9	5.4	5.5	6.0	6.2	6.9	6.2	6.6	6.4	6.8	5.7	4.6	4.1	4.2	4.1	3.1	111.2	
11	3.6	3.5	3.5	2.7	2.3	2.2	2.7	4.9	5.8	6.6	6.5	6.8	7.3	6.2	5.3	4.7	4.5	4.4	4.4	3.0	2.6	2.4	2.6	2.4	111.8	
12	2.1	2.0	1.9	1.8	1.5	1.5	2.4	3.9	4.4	5.3	5.4	5.4	5.7	6.0	6.2	6.2	6.0	6.4	5.5	4.0	3.4	3.4	3.3	3.0	94.3	
13	2.1	2.0	1.7	1.7	2.0	2.0	2.4	4.7	5.3	5.4	6.0	6.4	6.7	7.6	6.8	6.7	6.8	6.4	4.9	4.6	4.1	3.1	3.1	3.0	107.6	
14	2.6	2.8	2.8	2.8	2.7	2.2	2.7	4.6	5.8	6.7	7.6	8.0	7.9	8.0	8.0	8.8	6.4	6.4	6.4	5.4	5.7	4.4	4.4	4.4	124.1	
15	2.2	2.3	2.2	2.1	2.2	2.2	2.1	3.9	4.5	4.7	5.2	5.7	5.8	6.2	5.7	5.7	5.4	5.5	4.6	3.4	3.4	2.4	2.4	2.4	97.7	
16	1.7	1.6	1.5	1.5	1.5	1.5	2.1	4.5	5.3	5.8	6.3	7.8	8.0	7.8	6.8	6.7	6.6	5.5	4.5	3.3	3.4	3.1	2.9	2.9	103.3	
17	2.8	2.8	2.6	2.4	2.3	2.2	2.6	4.7	5.2	6.2	6.8	7.0	7.0	7.0	6.7	6.6	6.3	5.8	5.4	4.7	3.9	3.7	3.7	3.2	111.4	
18	3.5	2.9	2.6	2.5	2.5	2.2	2.3	4.4	4.9	5.9	6.0	7.8	7.7	7.3	7.4	7.1	6.4	5.8	5.0	4.1	3.3	3.0	2.9	2.9	111.0	
19	2.6	2.5	2.5	2.5	2.6	2.5	2.6	4.9	5.2	5.3	5.7	6.3	6.6	6.9	6.7	6.5	6.1	5.3	4.2	3.9	2.9	2.7	2.5	2.5	102.0	
20	2.5	2.3	2.3	2.2	2.6	2.6	2.7	4.8	5.7	6.6	6.1	6.3	7.0	7.4	7.0	7.2	7.2	5.4	4.9	4.2	3.9	3.3	3.3	3.0	111.0	
21	2.9	2.8	2.7	2.2	2.0	2.0	2.7	4.4	5.7	6.7	6.8	7.2	7.3	7.7	7.4	7.3	7.0	6.2	5.1	4.3	3.4	3.3	3.0	3.0	112.8	
22	3.0	2.9	2.9	2.8	2.5	2.5	2.8	4.7	5.6	6.0	5.8	6.8	7.8	7.4	7.8	7.8	7.0	6.4	5.2	4.5	3.2	2.5	2.5	2.6	112.1	
23	2.6	2.7	2.9	3.0	3.1	3.2	3.2	4.9	5.5	6.3	6.7	7.0	7.6	8.5	9.2	9.3	7.8	7.0	6.8	4.5	3.4	3.4	3.7	3.5	127.0	
24	3.5	3.4	3.3	3.1	2.5	2.3	2.6	5.2	6.4	6.2	7.3	7.5	7.8	7.8	8.0	7.9	7.6	6.6	5.7	4.3	3.7	3.7	3.0	2.7	127.0	
25	3.1	3.0	3.2	3.3	3.3	3.1	2.8	5.0	6.0	6.5	7.0	7.2	8.2	8.0	8.2	8.2	7.4	6.8	5.7	4.0	3.4	3.4	3.0	3.0	120.2	
26	2.9	3.1	2.6	3.0	3.3	3.2	3.0	4.6	6.4	6.4	6.4	6.8	7.0	7.4	7.6	7.2	7.4	6.8	5.9	4.9	4.0	3.4	3.4	3.0	113.5	
27	2.5	2.7	2.9	3.0	3.1	3.1	3.1	4.8	5.5	6.1	6.2	6.8	7.1	7.3	8.0	7.6	6.8	6.8	5.5	4.0	3.4	3.4	3.0	3.0	113.2	
28	3.0	3.1	2.3	2.2	2.2	2.2	2.0	4.8	5.5	6.4	6.6	6.8	7.1	7.4	6.8	7.2	7.0	6.8	5.4	4.8	3.8	3.3	3.6	3.6	111.5	
29	2.7	2.8	2.9	2.7	2.5	2.5	2.2	4.0	5.8	6.2	6.6	7.0	7.4	7.3	6.9	7.2	6.8	6.2	5.6	4.8	4.4	4.1	3.7	3.4	111.1	
30	3.0	3.2	3.1	3.1	2.9	2.9	3.1	4.3	6.1	6.2	6.5	7.4	8.0	7.3	7.9	7.2	6.8	6.0	4.6	3.9	3.4	3.0	3.0	2.8	110.5	
31	3.1	3.4	3.1	3.2	2.7	2.8	2.8	4.0	6.0	6.9	7.6	8.2	8.2	8.2	8.2	7.6	7.3	6.3	4.5	4.4	3.9	2.8	2.4	2.8	119.4	
Sum	84.8	82.2	79.8	76.7	73.8	71.9	84.2	143.2	167.4	199.5	194.4	207.6	219.1	222.7	219.1	222.9	202.2	187.8	159.0	131.5	111.1	90.6	87.7	87.7	337.8	
Mean ¹	2.74	2.74	2.66	2.64	2.54	2.48	2.81	4.77	5.58	5.92	6.27	6.70	7.07	7.18	7.07	7.03	6.74	6.16	5.30	4.38	3.70	3.24	3.12	2.83		
Mean ²	2.8	2.83	2.75	2.71	2.60	2.54	2.83	4.80	5.62	6.13	6.30	6.73	7.10	7.26	7.18	7.06	6.88	6.22	5.33	4.44	3.72	3.24	3.10	2.90		
Median	2.7	2.8	2.75	2.7	2.6	2.4	2.8	4.8	5.6	6.15	6.3	6.8	7.2	7.3	6.9	7.1	6.8	6.2	5.2	4.4	3.8	3.0	2.9	2.9		

¹For all days of the month²For quiet days

October, 1944

TABLE 45

IONOSPHERE DATA-3

Washington, D.C.

National Bureau of Standards

TIME: 75° W MERIDIAN

Half hourly values of f^oF_2 for October 1944

RESTRICTED

S.M.C.
H.C.C.

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	Sum	Mean
1	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2	23	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
3	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
4	29	29	28	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
5	30	29	30	28	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	30	31	31	31	29	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
7	37	33	28	25	26	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
8	26	28	27	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
9	26	28	27	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
10	26	28	27	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
11	36	36	29	25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
12	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
13	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
14	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
15	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
16	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
17	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
18	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
19	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
20	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
21	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
22	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
23	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
24	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
25	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
26	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
27	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
28	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
29	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
30	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
31	20	17	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Sum	530	807	766	750	731	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729
Mean	27.7	26.9	26.4	25.9	25.2	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
Mean ²	2.86	2.78	2.71	2.64	2.57	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Median	2.8	2.8	2.7	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4

For all days of the month

For quiet days

 f^oF_2

October, 1944

Washington, D.C.

Ionosphere Station

IONOSPHERE DATA-4

TABLE 46

(Location)
National Bureau of Standards

(Institution)

Hourly values of $h'F_1$ in km for October 1944Records measured by S.M.O.
H.P.G.

RESTRICTED

TIME 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1								220	230	200 ^H	200	200	220	220	240	220	(220)								2170		
2								200 ^H	240	200 ^H	190	200	200	200	180 ^H	220	C								1630		
3								C	C	C	200 ^H	200	210	200 ^H	220	240	220								1490		
4											200	(210 ^H)	220	200	210	210	220								1690		
5											200	220	200	210	220	220	240								1510		
6									200 ^H	220	200	200 ^H	200	210	200 ^H	240	230								1910		
7									220	220 ^H	220 ^H	210	(220 ^H)	240	240	220	220								2010		
8									220	220	200	200	200	230	200 ^H	220	220								1690		
9									220	220	200	200	200	230	240	220	240								1970		
10									230	210	200	210	200	220	220	220	240								1950		
11									240	220	200	220 ^H	220 ^H	230 ^H	260 ^H	240 ^H	240 ^H	A K							2070		
12									A	220	240	A	A	A	220	230	220								1130		
13									220	200	180	200 ^H	210	210 ^H	200 ^H	240	A	A							1660		
14									220	220	220	240	220	220	220 ^H	220	220	K							1560		
15									220 ^H	220 ^H	200 ^H	200 ^H	220 ^H	220 ^H	230 ^H	230 ^H	220 ^H	K							1960		
16									220	200	200 ^H	200 ^H	240	220	220	220									1520		
17									(220 ^H)	220 ^H	230	210 ^H	220	220	220	220	A	A							1540		
18									(210 ^H)	220	200 ^H	200 ^H	200 ^H	200 ^H	180 ^H	240	A								1450		
19									220	200	200	200	240	220 ^H	240	220	A								1740		
20									220	200	200	200	210	200 ^H	230	240									1500		
21									220	210 ^H	220	200	190 ^H	220 ^H	240	240									1740		
22									220	200	200	200	190 ^H	220 ^H	220 ^H	230	220								1720		
23									210 ^H	220 ^H	220	200 ^H	240	240	240	220	A								1540		
24									200 ^H	200 ^H	190 ^H	200	230	240	240	240									1500		
25									200	200	200 ^H	(210 ^H)	(210 ^H)	240	220	220	220								1950		
26									200	200	240	220	220	210	220	220	200								1930		
27									(200)	(220)	200 ^H	200	200 ^H	190 ^H	240	220									1610		
28									210	220	200	(200)	200	(230)	240	240	230								1990		
29									180 ^H	190 ^H	220	(230)	220	220	220	230									1490		
30									220	210	200	200	220	(220)	220	240									1730		
31									200	220	200	200 ^H	230	240	220	230	220								1940		
Sum								420	3690	6320	6390	6210	6350	6550	6950	6870	3080								53330		
Mean ¹								210	217	211	206	207	212	218	224	229	224										
Mean ²								210	217	210	206	207	211	218	223	228	223										
Median								220	215	200	200	210	210	220	220	230	220										

¹For all days of the month²For quiet days $h'F_1$

October, 1944

TABLE 47

IONOSPHERE DATA-5

Washington, D.C.

Ionosphere Station

National Bureau of Standards

(Institution)

RESTRICTED

Records measured by: S.M.O.
H.P.G.Hourly values of f^oF_1 in $^{\circ}$ for October 1944
(Month)

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean
1									3.5	4.0 ^H	4.1	4.2	4.2	4.2	4.2	4.0	3.7									36.1
2								2.6 ^H	3.7	4.0 ^H	4.1	4.2	4.3	4.2 ^H	4.0	C										31.1
3								C	C	C	4.2 ^H	4.2	4.3	4.2 ^H	4.1	3.8	3.5									28.3
4										4.0	(4.3)	4.4	4.4	4.3	4.2	3.9	3.6									33.1
5										4.0	4.1	4.3	4.4	4.3	4.1	[4.0]										29.2
6									3.6 ^H	(4.1)	4.2	4.3 ^H	4.4	4.2	4.2 ^H	4.0	[3.7]									36.7
7									3.7	4.0 ^H	4.1 ^H	4.2	[4.3]	4.3	4.2	4.0	3.5									32.3
8										3.9	3.8	(4.2)	4.3	4.1	4.3 ^H	3.9	3.6									32.1
9										3.5	3.8	4.2	4.2	4.3	4.2	4.0	3.5									35.9
10										3.6	3.8	4.0	4.3	4.2	4.1	(3.8)	(3.5)									35.3
11										3.6	3.9	4.0	4.1 ^K	4.0 ^K	3.9 ^K	3.8 ^K	3.7 ^K	3.4 ^K	A ^K							34.4
12										A	3.8	3.9	A	A	4.0	3.9										15.6
13										(3.8)	4.1	4.2 ^H	4.2	4.2 ^H	4.1 ^H	3.8	A	A								28.4
14										(3.9)	4.2	4.3	4.3	4.1	(4.0) ^H	(3.8)	^K	^K								28.6
15										(3.4) ^K	3.8 ^K	3.9 ^K	3.8 ^K	4.1 ^K	4.0 ^K	3.9 ^K	3.7 ^K	(3.3) ^K	^K							33.9
16										3.8	3.9	4.2 ^H	4.2	4.0	4.0	(3.8)										27.9
17										3.8	4.1 ^H	4.1	4.0 ^H	4.0	4.1	3.8	A	A								27.9
18										(3.7)	4.1	(4.3) ^H	4.2 ^H	4.2 ^H	3.9 ^H	3.7	A									28.1
19										(3.8)	4.1	4.2	4.2	4.2 ^H	4.0	3.8	A									28.3
20										4.0	(4.2)	4.1	4.2	4.2 ^H	4.1	3.9										28.7
21										(3.4)	4.1 ^H	4.0	4.1	(4.3) ^H	4.2 ^H	4.1	[3.8]									32.0
22										[3.6]	3.7	(4.0)	4.3 ^H	(4.2) ^H	4.2 ^H	3.7										27.7
23										(3.8) ^H	4.1 ^H	4.2	4.4 ^H	4.2			A									20.7
24										(4.1) ^H	4.0 ^H	4.0 ^H	(4.2)	4.3	4.1											24.7
25										3.1	3.4	H	[4.3]	A	[4.1]	3.8	(3.8)	(3.1)								25.6
26										3.4	3.3	4.0	4.1	4.2	3.9	4.1	3.7									30.7
27										[3.1]	[3.7]	(4.0) ^H	[4.1]	[4.1]	(4.1) ^H	4.0	3.7									30.8
28										3.3	[3.8]	(4.0)	[4.1]	(4.1)	4.2	4.0	[3.7]									31.2
29										(3.8) ^H	3.9 ^H	(4.2)	[4.3]	(4.1)	4.0											24.3
30										3.6	4.0	[4.2]	4.2	[4.2]	(3.8)											24.0
31										[3.5]	[4.0]	(4.2) ^H	4.2	(4.1)	(3.8)											23.8
Sum									2.6	4.49	11.46	12.13	12.10	12.71	12.45	12.13	9.57	38.4								911.4
Mean ¹									2.60	3.45	3.82	4.04	4.17	4.24	4.15	4.04	3.83	3.49								
Mean ²									2.60	3.46	3.82	4.05	4.19	4.25	4.16	4.06	3.84	3.52								
Median									3.5	3.8	4.05	4.2	4.2	4.2	4.2	4.05	3.8	3.5								

¹For all days of the month²For quiet days

October, 1944

 f^oF_1

Washington, D.C.

Ionosphere Station

TABLE 48

IONOSPHERE DATA-6

RESTRICTED

National Bureau of Standards

Hourly values of $h' E$ in μ for October 1944
(month)Records measured by: S.M.O.
H.P.G.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1								120	120	120	110	120	100	100	120	120	120	120							1270		
2								120	120	120	110	120	120	120	120	120	120	120							950		
3								C	C	C	120	120	120	120	120	120	120	120							960		
4								120	120	120	120	120	120	120	100	110	110	120							1280		
5								140	120	120	120	120	120	120	120	120	120	120							1340		
6								120	120	110	110	120	110	110	120	110	120	140							1290		
7								140	120	110	120	120	120	120	120	120	120	120							1330		
8								140	120	120	110	110	120	120	120	100	120	100							1280		
9								120	120	120	120	120	120	120	120	100	100	100							1260		
10								140	120	120	120	120	120	120	110	110	120	120							1320		
11								120	120	110	120	120	120	120	120	120	120	120							1190		
12								120	120	120	120	110	120	120	120	120	120	130							1200		
13								110	110	120	120	120	120	120	120	120	120	110							1160		
14								120	120	110	120	120	120	110	120	120	120	120							1300		
15								120	120	120	120	120	120	120	110	120	120	140							1480		
16								120	120	120	120	120	120	120	120	110	120	120							1190		
17								120	120	110	110	120	120	120	120	110	110	120							1280		
18								120	120	110	110	120	100	110	100	110	110	100							1210		
19								120	120	120	120	120	120	120	120	120	120	120							1320		
20								120	120	120	110	110	120	110	100	100	100	110							1220		
21								110	120	120	110	120	110	100	110	120	110	110							1240		
22								120	120	120	120	120	120	110	110	120	110	120							1290		
23								120	110	120	120	110	120	110	110	100	110	120							1250		
24								120	120	120	120	110	120	120	110	120	120	120							1180		
25								120	120	120	110	120	100	110	120	110	120	100							1250		
26								120	120	110	110	120	110	110	110	110	120	120							1150		
27								120	110	120	120	120	120	120	110	110	110	110							1150		
28								120	120	120	120	110	110	110	120	120	120	120							1290		
29								120	130	120	120	120	120	120	120	120	110								1180		
30								120	120	120	120	110	110	110	100	100	100	100							990		
31								110	120	120	120	110	120	120	110	120	100								1150		
Sum								12940	3570	3530	3610	3650	3600	3570	3560	3390	3450	2930							37950		
Mean ¹								120	120	120	118	116	116	115	115	115	115	117									
Mean ²								123	120	118	116	118	116	115	114	112	114	116									
Median								120	120	120	120	120	120	120	120	120	115	120									

¹For all days of the month²For quiet days $h' E$

October, 1944

TABLE 49

IONOSPHERE DATA-7

Washington, D. C.

Ionosphere Station

National Bureau of Standards

(Location)
(Institution)

RESTRICTED

Records measured by: S.M.O.
H.P.G.Hourly values of f^oE in $^{\circ}$ for October 1944
(Months)

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1								2.1	2.5	B	B	[3.0] ^B	B	B	B	B	(2.4)	1.9							12.0		
2								1.9	(2.4)	(2.7)	[2.8] ^B	(3.0)	B	B	(2.9)	C	C	C							15.7		
3								C	C	C	B	B	[3.0] ^B	(3.1)	(3.0)	(2.8)	2.4	1.9							16.3		
4								2.0	(2.4)	A	A	B	A	A	A	2.8	2.5	A							9.7		
5								2.0	[2.5] ^B	[2.7] ^B	A	A	A	B	(3.0)	[2.9] ^B	(2.5)	1.9							17.5		
6								2.0	(2.4)	(2.7)	(3.0)	(3.1)	3.1	3.2	3.0	(2.8)	2.5	2.3							30.1		
7								1.9	2.5	2.8	A	A	C	(3.2)	(3.0)	(2.8)	2.4	A							18.6		
8								1.7	(2.4)	(2.8)	3.0	(3.1)	3.1	3.1	3.0	(2.8)	2.5	1.9							29.4		
9								1.9	(2.3)	(2.7)	(2.8)	3.0	3.2	3.1	3.0	(2.8)	[2.9] ^A	A							27.2		
10								1.8	2.4	(2.8)	[3.0] ^A	3.1	3.1	3.1	(2.9)	2.7	2.4	1.8							29.1		
11								A	(2.5)	(2.8)	[2.9] ^A	2.9 ^K	2.9 ^K	A ^K	A ^K	A ^K	A ^K	A ^K							14.0		
12								A	A	A	A	A	A	A	(3.0)	[2.7] ^A	2.3	(1.9)							9.9		
13									(2.5)	(2.6)	2.9	3.1	3.1	3.1	2.9	2.8	A	A							23.0		
14								A	(2.5)	A	A	A	3.1	[3.0] ^A	2.9	[2.7] ^A	[2.9] ^A	(1.7) ^K							18.3		
15							(1.2) ^K	[1.8] ^K	(2.2) ^K	2.5 ^K	2.7 ^K	2.9 ^K	2.9 ^K	[2.9] ^K	(2.8) ^K	(2.5) ^K	2.1 ^K	1.7 ^K							28.2		
16								(1.9)	[2.4] ^A	2.6	[2.8] ^B	2.9	(3.1)	3.0	2.8	2.6	2.0 ^H								26.1		
17								1.8 ^F	[2.3] ^A	[2.6] ^A	2.8	3.0	3.0	3.0	2.9	A	A	A							21.4		
18								A	2.2	[2.6] ^A	[2.8] ^A	3.0	(3.1)	(3.1)	(2.8)	2.7	(2.3)	A							24.6		
19								1.7	2.3	2.7	2.9	3.0	(3.2) ^F	3.1	3.0	2.7	(2.3)	(1.6) ^F							28.5		
20								(1.8)	(2.4)	2.8	A	A	A	3.1	3.0	[2.7] ^A	[2.3] ^A	A							18.1		
21								A	A	A	2.9	3.0	3.1	3.0	[2.9] ^A	2.6	2.3	(1.7)							21.5		
22								(1.7)	[2.3] ^A	2.7	2.9	3.0	3.1	3.1	(3.0)	2.7	(2.3)	A							26.8		
23								1.6	2.3	2.7	2.9	(3.1)	[3.0] ^A	3.1	2.9	2.6	A	A							24.3		
24								(1.7)	[2.2] ^A	2.6	(2.9) ^A	3.0	3.1	3.2	(3.1)	(2.7)	2.3								26.8		
25								(1.6)	2.3	2.6	2.8	A	A	(3.1)	[2.9] ^A	A	A	A							15.3		
26									2.3	2.6	2.9	A	A	(3.0)	2.9	[2.7] ^A	2.1 ^H	A							18.5		
27								2.3	2.7	2.4	3.0	3.1	(3.0)	3.0	[2.7] ^A	(2.7) ^A	2.2	A							24.9		
28								(1.6)	A	A	(2.8)	[3.0] ^A	(3.0)	(3.1)	3.0	2.7	2.4	A							21.6		
29								(1.6)	2.4	2.7	3.0	(3.1)	(3.1)	(3.1)	2.9	(2.7)	2.3								26.9		
30								(2.2)	(2.6)	2.9	3.1	3.1	3.1	3.1	2.9	2.6	A								22.5		
31								[1.7] ^C	(2.2)	(2.6)	2.9	3.0	[3.0] ^A	(3.0)	2.8	2.6	2.1								26.0		
Sum						1.2		37.8	61.1	63.9	66.1	66.5	67.8	79.8	82.2	70.4	55.7	20.3							672.8		
Mean ¹						1.2		1.80	2.35	2.66	2.87	3.02	3.08	3.07	2.94	2.71	2.32	1.84									
Mean ²								1.80	2.36	2.67	2.88	3.04	3.10	3.08	2.94	2.72	2.33	1.88									
Median								1.8	2.35	2.7	2.9	3.0	3.1	3.1	2.9	2.7	2.3	1.9									

¹For all days of the month²For quiet days f^oE

October, 1944

TABLE 51

IONOSPHERE DATA-9

Washington, D. C.

Ionosphere Station

National Bureau Of Standards

(Institution)

Hourly values of F2-M1500 for October 1944
(Month)

TIME: 75° W MERIDIAN

RESTRICTED

Records measured by: S.M.O.
H.P.G.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1	198	197	188	190	192	200	224	237	243	222	219	217	206	211	218	(216)	229	(222)	219	207	202	203	206	(207) ^F	5072		
2	199	195	192	200	(200)	A	220	240	241	243	210	207	214	205	216	C	C	C	C	C	C	(217) ^F	(201) ^F	(200) ^F	3607		
3	(175) ^F	C	C	C	C	C	C	C	C	C	214	215	208	205	211	219	216	228	210	213	219	210	197	200	3150		
4	195	195	196	202	207	212	232	252	249	237	225	213	217	205	212	217	230	230	238	215	208	202	190	198	5179		
5	193	197	197	210	221	208	220	241	233	234	225	217	(215)	220	220	219	222	238	217	214	210	196	189	195	5151		
6	197	182	194	208	220	213	222	241	227	230	213	(224)	213	(218)	227	(213)	219	221	200	224	194	203	190	190	5093		
7	197	204	200 ^F	A	195	203	218	223	223	221	220	208	C	197	213	213	222	225	221	216	198	195	192	197	4601		
8	190	195	207	200	209 ^F	221 ^F	230	242 ^H	243	237	220	217	208	206	211	207	227	231 ^H	230	213	216	195	192	194	5153		
9	199	195 ^F	196	206 ^F	201 ^F	201 ^F	213	245	235	220	230	215	205	217	203	209	221	229	234	212	211	204	(200)	(217)	5121		
10	204 ^F	196	201 ^F	(188) ^F	201 ^F	209 ^F	220	241	254	235	228	218	210	220	218	221	219	225	222	200	188	178	198	178	5072		
11	191	190	218	(198) ^F	(212) ^F	(211) ^F	A	220	218	215	199	174 ^F	173 ^F	186 ^F	206 ^F	200 ^F	212 ^F	208 ^F	A ^F	190 ^F	182 ^F	188 ^F	(204) ^F	190 ^F	4485		
12	193 ^F	(198) ^F	(189) ^F	A ^F	A ^F	A ^F	209 ^F	234	236	216	220	A	211	217	223	219	204	214	210	215	214	223	210	(218) ^F	4272		
13	(193) ^F	(185) ^F	(194) ^F	(189) ^F	(210) ^F	(222) ^F	221 ^F	240	242	(234)	220	218	209	(248)	228	223	234	225	208	199	202	212	192	206	5149		
14	188	180 ^F	198 ^F	A	200 ^F	(222) ^F	220 ^F	245	240	211	214	(193)	216	(200)	220	213	213	208 ^F	223 ^F	197 ^F	182 ^F	185 ^F	(190) ^F	188 ^F	(202) ^F	4693	
15	(187) ^F	(206) ^F	(215) ^F	(201) ^F	(190) ^F	(187) ^F	(195) ^F	220 ^F	210 ^F	202 ^F	207 ^F	213 ^F	211 ^F	212 ^F	212 ^F	210 ^F	213 ^F	222 ^F	230 ^F	195 ^F	(209) ^F	(201) ^F	(176) ^F	(200) ^F	4902		
16	(209) ^F	(207) ^F	(191) ^F	188 ^F	F ^F	(214) ^F	(197) ^F	240	239	223	(206)	217	212	220	225	220	232	243	225	221 ^F	205	200	197	194	4911		
17	190	200	202	195 ^F	195 ^F	201 ^F	212	230	209	228	200	(217)	216	224	225	224	232	230	213	210	197	194	197	200	5041		
18	201	220 ^F	(203) ^F	207 ^F	(227) ^F	(201)	220 ^F	240	240	210	205	(214)	(229)	222	221	224	230	240	223	219	207	201	192	201	5197		
19	197 ^F	194 ^F	200 ^F	201 ^F	201 ^F	211 ^F	210 ^F	249	237	242	212	215	219	221	225	224	237	240	215	(227)	203	A	200	205	4987		
20	196 ^F	201 ^F	204 ^F	201	202 ^F	209 ^F	220 ^F	240	220 ^F	239	225	215	210	213	211	221	235	223	219	212	203	217	199	194	5129		
21	197	206	212 ^F	216 ^F	220 ^F	202 ^F	212 ^F	253	243	(213)	229	227	219	(211)	216	215	230	(228)	211	217	214	201	200	201	5193		
22	195	193	(200)	(213)	(214) ^F	220 ^F	239	247	(235)	(249)	228	209	223	(209)	217	(230)	230	241	(250)	212	225	198	197	194	5268		
23	188	197	206	197	203	202	213	247 ^H	238	234	236	214	(193)	203	(220)	229	223	223	(237)	230	190	190	187	184	5089		
24	198	207	215	210	(211)	214	(220)	(241)	251	229	(227)	(225)	(215)	200	220	224	230	217	202	227	217	220	216	199	5235		
25	A	190 ^F	204	207	211	215	224	231	244	222	225	209	217	215	223	J	(241)	238	230	216	213	A	194	198	4567		
26	A	205	(192) ^F	(192) ^F	213	213	210	235	210	227	233	227	224	221	227	228	228	239	221	227	220	211 ^F	202 ^F	(202) ^F	5007		
27	(197) ^F	(202) ^F	(207) ^F	205 ^F	(209) ^F	225 ^F	240	255	251	242	225	219	211	206	217	225	229	250	217	230	200 ^F	192	210 ^F	211 ^F	5275		
28	200 ^F	(198) ^F	(197) ^F	217 ^F	201 ^F	A	210 ^F	(250) ^F	249	247	229	221	224	(225)	227	(222)	220	235	215	214	202	210	211 ^F	200 ^F	5024		
29	195 ^F	192 ^F	(208) ^F	211 ^F	(213) ^F	(230) ^F	(230) ^F	259	243	240	229	(223)	(231)	(222)	222	231	233	243	227	211	209	206	210	(209)	5328		
30	(190) ^F	(211) ^F	(200) ^F	(213) ^F	210 ^F	(218) ^F	235	243	230	231	(225)	220	218	(228)	238	232	243	224	209	202	189	198 ^F	195 ^F	5213			
31	190 ^F	209	205 ^F	212 ^F	(201) ^F	(219) ^F	232	230	(235)	211	212	219	216	220	225	235	235	223	210	210	227	210	200	210 ^F	5162		
Sum	5641	5947	6030	5469	5800	5674	6318	7205	7071	6875	6794	6469	6382	6644	6768	6382	6882	6895	6340	6401	6164	5831	6159	6185	152326		
Mean ¹	194	198	201	202	207	210	218	240	236	229	219	216	213	214	218	220	229	230	219	213	205	201	199	200			
Mean ²	195	198	201	203	208	211	219	241	236	230	220	217	214	215	219	221	227	231	220	216	207	203	199	200			
Median	196	197	200	202	208	211	220	240	238	230	220	216	214	216	220	220	221	228	219	214	204	201	198	200			

¹For all days of the month²For quiet days

F2-M1500

October, 1944

TABLE 52

IONOSPHERE DATA-10

Washington, D.C.

Ionosphere Station

National Bureau Of Standards

(Institution)

Hourly values of F2-M3000 for October 1944
(Month)Records measured by: S.M.O.
H.P.G.

RESTRICTED

TIME: 75° W MERIDIAN																											
Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sun	Mean	
1	2.95	2.95	2.84	2.90	2.90	3.05	3.39	3.45	3.53	3.32	3.25	3.19	3.14	3.19	3.29	3.24	3.34	3.30	3.20	3.08	3.08	3.06	3.10	3.10	75.84		
2	2.98	2.94	2.90	3.03	3.03	A	3.20	3.46	3.48	3.52	3.19	3.12	3.15	3.06	3.20	C	C	C	3.17	3.15	3.21	3.12	3.00	3.00	53.55		
3	2.55	C	C	C	C	C	C	C	C	C	3.20	3.19	3.20	3.20	3.21	3.20	3.31	3.17	3.15	3.21	3.12	3.00	3.00	46.80			
4	2.90	2.95	2.92	3.04	3.08	3.15	3.37	3.61	3.62	3.40	3.28	3.17	3.20	3.08	3.20	3.25	3.35	3.38	3.47	3.17	3.11	3.05	2.85	3.00	76.60		
5	2.90	2.98	2.91	3.13	3.31	3.17	3.29	3.45	3.40	3.40	3.30	3.20	3.18	3.23	3.30	3.24	3.30	3.47	3.29	3.17	3.18	2.94	2.84	2.95	76.43		
6	2.99	2.76	2.89	3.10	3.25	3.15	3.31	3.51	3.47	3.40	3.16	3.29	3.16	3.20	3.38	3.23	3.22	3.32	3.01	3.23	2.90	3.05	2.89	2.87	75.68		
7	3.00	3.05	3.01	A	2.91	3.07	3.24	3.30	3.28	3.29	3.25	3.10	C	2.96	3.20	3.20	3.21	3.27	3.21	3.21	2.99	2.98	2.91	2.94	68.55		
8	2.87	2.93	3.07	3.00	3.12	3.27	3.34	3.49	3.56	3.42	3.25	3.20	3.10	3.09	3.16	3.09	3.30	3.40	3.34	3.20	3.20	2.92	2.90	2.90	76.12		
9	3.00	3.00	3.09	3.10	3.00	3.01	3.20	3.52	3.42	3.24	3.46	3.17	3.10	3.27	3.09	3.13	3.20	3.34	3.39	3.14	3.18	3.10	3.00	3.24	76.39		
10	3.10	2.98	3.03	3.22	3.09	3.14	3.20	3.44	3.68	3.44	3.35	3.20	3.13	3.24	3.27	3.25	3.20	3.31	3.26	3.00	2.85	2.68	3.00	2.70	75.30		
11	2.89	2.90	3.15	3.06	3.19	A	3.20	3.22	3.22	3.20	3.00	2.65	2.65	2.84	3.08	3.04	3.20	3.11	A	2.90	2.73	2.83	3.00	2.94	65.85		
12	2.93	2.90	2.88	A	A	A	A	A	3.40	3.30	3.25	3.25	A	3.15	3.23	3.28	3.25	3.04	3.19	3.11	3.16	3.20	3.30	3.10	3.38	63.48	
13	2.84	2.89	2.99	3.75	3.10	3.20	3.22	3.43	3.49	3.44	3.28	3.24	3.12	3.20	3.35	3.30	3.40	3.30	3.10	2.93	3.09	3.15	3.00	3.10	75.93		
14	2.87	2.80	2.98	A	3.05	3.30	3.00	3.43	3.40	3.20	2.90	3.21	3.10	3.29	3.16	3.17	3.08	3.25	2.98	2.78	2.83	2.87	2.86	3.05	70.29		
15	2.90	2.91	2.95	2.90	3.05	3.20	3.22	3.30	3.11	3.07	3.10	3.19	3.16	3.14	3.14	3.14	3.32	3.39	3.35	2.90	3.10	3.00	3.00	3.00	73.55		
16	2.99	3.14	3.22	2.91	F	3.42	3.29	3.44	3.47	3.24	3.05	3.27	3.19	3.25	3.25	3.24	3.38	3.50	3.30	3.21	3.08	3.07	3.00	2.92	72.7		
17	2.90	3.00	3.05	2.96	2.91	F	3.40	3.29	3.36	3.11	3.34	3.02	3.22	3.21	3.30	3.29	3.30	3.35	3.33	3.18	3.12	3.00	2.91	3.00	3.00	75.15	
18	3.02	3.30	3.11	3.16	3.40	3.20	3.23	3.47	3.49	3.10	3.05	3.20	3.36	3.24	3.30	3.30	3.39	3.46	3.45	3.25	3.18	3.14	3.03	3.04	77.18		
19	3.01	2.90	3.00	3.03	3.20	3.20	3.15	3.53	3.40	3.48	3.20	3.20	3.26	3.27	3.29	3.30	3.44	3.45	3.20	3.36	3.10	A	3.10	3.06	73.74		
20	3.00	3.06	3.10	3.05	3.10	3.10	3.25	3.58	3.26	3.47	3.37	3.18	3.14	3.22	3.15	3.27	3.34	3.28	3.24	3.19	3.03	3.22	3.00	2.97	76.42		
21	3.00	3.13	3.19	3.18	3.29	3.07	3.22	3.65	3.47	3.19	3.39	3.30	3.26	3.19	3.21	3.20	3.35	3.27	3.14	3.25	3.18	3.10	3.10	3.05	77.35		
22	2.90	2.90	3.02	3.13	3.20	3.25	3.49	3.50	3.30	3.61	3.27	3.12	3.30	3.12	3.21	3.40	3.31	3.48	3.60	3.16	3.32	2.45	2.98	2.94	77.40		
23	2.98	2.91	3.17	2.99	3.09	3.07	3.17	3.50	3.42	3.43	3.40	3.17	2.92	3.03	3.22	3.37	3.30	3.26	3.38	3.36	2.86	2.86	2.77	2.80	75.32		
24	2.99	3.10	3.17	3.10	3.12	3.19	3.13	3.34	3.67	3.39	3.37	3.28	3.20	3.20	3.28	3.30	3.50	3.23	3.00	3.30	3.25	3.26	3.20	3.00	77.27		
25	A	2.90	3.10	3.13	3.20	3.19	3.30	3.34	3.50	3.28	3.30	3.10	3.20	3.20	3.29	3.29	3.50	3.40	3.37	3.17	3.13	A	2.90	2.95	67.34		
26	A	3.05	2.92	3.10	3.20	3.22	3.11	3.40	3.18	3.37	3.40	3.32	3.30	3.11	3.32	3.37	3.35	3.43	3.30	3.23	3.20	3.14	3.08	3.05	73.95		
27	3.00	3.00	3.13	3.05	3.20	3.29	3.42	3.64	3.64	3.53	3.25	3.21	3.25	3.04	3.26	3.31	3.37	3.55	3.15	3.34	2.94	2.90	3.20	3.24	77.70		
28	2.98	3.00	2.93	3.16	3.04	A	3.13	3.60	3.59	3.54	3.30	3.25	3.25	3.35	3.34	3.38	3.24	3.38	3.20	3.19	3.12	3.13	3.21	3.00	77.21		
29	2.94	2.93	3.01	3.15	3.20	3.20	3.33	3.68	3.54	3.43	3.34	3.40	3.40	3.35	3.30	3.32	3.26	3.26	3.20	3.17	3.11	3.11	3.12	3.09	77.29		
30	2.99	3.18	3.03	3.11	3.20	3.10	3.44	3.43	3.48	3.36	3.36	3.31	3.28	3.20	3.39	3.48	3.33	3.50	3.30	3.11	3.06	2.85	3.00	3.00	77.17		
31	2.89	3.10	3.15	3.14	3.20	3.20	3.19	3.42	3.30	3.42	3.17	3.19	3.22	3.20	3.24	3.31	3.41	3.29	3.14	3.15	3.32	3.10	3.08	3.00	76.65		
Sum	85.20	89.57	90.91	81.89	86.83	84.75	93.35	102.90	102.53	100.84	100.34	95.84	95.05	98.34	100.52	94.57	99.03	100.27	93.78	94.76	92.39	91.50	43.11	43.08	22.08		
Mean ¹	2.94	2.98	3.03	3.03	3.10	3.14	3.22	3.46	3.42	3.36	3.24	3.19	3.17	3.17	3.24	3.26	3.30	3.34	3.22	3.16	3.08	3.02	3.00	3.00			
Mean ²	2.94	2.98	3.04	3.04	3.11	3.15	3.22	3.47	3.43	3.37	3.24	3.21	3.19	3.18	3.25	3.27	3.31	3.25	3.24	3.18	3.10	3.04	3.01	3.01			
Median	2.98	2.98	3.03	3.05	3.10	3.15	3.22	3.46	3.47	3.40	3.25	3.20	3.18	3.20	3.24	3.27	3.32	3.32	3.21	3.17	3.10	3.05	3.00	3.00			

For all days of the month

For quiet days

F2-M3000

October, 1944

TABLE 53

IONOSPHERIC DATA-II

Washington, D.C.

Ionosphere Station

National Bureau of Standards

(Institution)

Hourly values of F₂-M3000 for October 1944
(Month)Records measured by: S.M.O.
H.P.G.

RESTRICTED

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean
1	3.12	3.16	3.01	3.14	3.11	3.25	3.50	3.60	3.49	3.49	3.40	3.40	3.29	3.35	3.38	3.44	3.50	3.45	3.40	3.25	3.23	3.20	3.27	3.28	79.97	
2	3.11	3.13	3.10	3.20	3.19	A	3.41	3.59	3.69	3.63	3.35	3.30	3.10	3.21	3.39	C	C	C	C	C	C	3.39	3.19	3.30	56.57	
3	2.72	C	C	C	C	C	C	C	C	C	3.39	3.40	3.30	3.35	3.35	3.42	3.35	3.45	3.28	3.34	3.40	3.30	3.19	3.15	49.39	
4	3.11	3.11	3.13	3.22	3.22	3.35	3.63	3.73	3.75	3.60	3.43	3.35	3.40	3.25	3.32	3.41	3.50	3.50	3.64	3.50	3.25	3.21	3.02	3.20	80.63	
5	3.10	3.15	3.11	3.34	3.50	3.32	3.45	3.60	3.53	3.50	3.47	3.40	3.38	3.40	3.45	3.42	3.42	3.60	3.41	3.31	3.35	3.07	3.08	3.15	81.51	
6	3.9	2.45	3.11	3.31	3.31	3.50	3.62	3.60	3.52	3.35	3.35	3.47	3.31	3.42	3.50	3.45	3.39	3.40	3.16	3.45	3.10	3.23	3.08	3.09	74.91	
7	3.14	3.21	3.20	A	3.13	3.30	3.36	3.45	3.46	3.46	3.41	3.26	C	3.10	3.36	3.37	3.36	3.45	3.40	3.38	3.17	3.11	3.10	3.11	72.29	
8	3.08	3.2	3.31	3.20	3.30	3.46	3.48	3.62	3.70	3.57	3.41	3.34	3.27	3.25	3.32	3.26	3.46	3.59	3.45	3.41	3.34	3.09	3.12	3.10	82.25	
9	3.15	3.19	3.30	3.24	3.19	3.22	3.37	3.70	3.61	3.40	3.54	3.32	3.28	3.44	3.23	3.29	3.39	3.48	3.50	3.28	3.30	3.25	3.20	3.46	80.38	
10	3.32	3.18	3.22	3.21	3.21	3.31	3.40	3.60	3.80	3.55	3.50	3.39	3.30	3.42	3.40	3.40	3.41	3.43	3.41	3.20	3.09	2.88	3.20	2.86	79.50	
11	3.10	3.10	3.38	3.19	A	3.35	A	3.40	3.40	3.49	3.17	2.71	2.85	3.06	3.25	3.20	3.32	3.32	A	3.10	2.96	3.02	3.26	3.03	72.19	
12	3.10	3.10	3.20	A	A	A	3.37	3.60	3.41	3.40	3.49	A	3.30	3.39	3.46	3.40	3.20	3.34	3.25	3.30	3.35	3.43	3.30	3.49	66.76	
13	3.03	2.90	3.20	3.01	3.29	3.42	3.41	3.56	3.65	3.60	3.41	3.41	3.30	3.43	3.50	3.44	3.60	3.45	3.26	3.12	3.23	3.30	3.13	3.30	72.12	
14	3.07	3.00	3.10	A	3.21	3.43	3.21	3.55	3.42	3.35	3.09	3.40	3.39	3.44	3.36	3.35	3.22	3.40	3.40	3.15	3.03	3.11	3.05	3.30	72.12	
15	3.14	3.22	3.30	3.17	3.17	3.17	3.22	3.47	3.30	3.23	3.28	3.30	3.35	3.35	3.31	3.36	3.49	3.50	3.10	3.30	3.19	3.20	3.15	3.15	78.05	
16	3.17	3.34	3.20	3.10	F	3.33	3.15	3.62	3.62	3.40	3.25	3.40	3.39	3.41	3.41	3.44	3.50	3.68	3.47	3.42	3.25	3.20	3.20	3.10	76.84	
17	3.11	3.20	3.25	3.15	3.16	3.20	3.30	3.51	3.29	3.50	3.19	3.40	3.36	3.50	3.45	3.47	3.51	3.47	3.35	3.29	3.16	3.12	3.17	3.20	74.51	
18	3.20	3.14	3.20	3.23	3.21	3.20	3.48	3.60	3.63	3.29	3.20	3.41	3.52	3.47	3.44	3.49	3.50	3.60	3.41	3.44	3.32	3.22	3.22	3.12	81.79	
19	3.20	3.14	3.20	3.23	3.21	3.25	3.34	3.54	3.54	3.60	3.40	3.39	3.40	3.43	3.45	3.45	3.62	3.60	3.35	3.50	3.29	A	3.20	3.28	77.45	
20	3.20	3.25	3.31	3.21	3.28	3.30	3.44	3.60	3.40	3.65	3.45	3.37	3.30	3.35	3.31	3.47	3.54	3.42	3.40	3.34	3.22	3.41	3.21	3.22	81.55	
21	3.20	3.31	3.38	3.40	3.46	3.25	3.41	3.80	3.59	3.38	3.50	3.45	3.44	3.35	3.40	3.40	3.50	3.41	3.30	3.42	3.31	3.23	3.29	3.27	81.75	
22	3.11	3.10	3.20	3.22	3.47	3.41	3.61	3.64	3.48	3.70	3.35	3.30	3.48	3.31	3.40	3.50	3.52	3.61	3.74	3.31	3.49	3.20	3.11	3.10	81.51	
23	3.07	3.17	3.35	3.13	3.25	3.23	3.31	3.70	3.61	3.59	3.52	3.34	3.10	3.23	3.45	3.60	3.50	3.40	3.55	3.50	3.03	3.04	3.00	2.98	79.65	
24	3.14	3.28	3.35	3.37	3.36	3.38	3.37	3.62	3.80	3.50	3.50	3.50	3.40	3.20	3.41	3.48	3.50	3.43	3.18	3.46	3.44	3.40	3.35	3.20	81.62	
25	A	3.10	3.29	3.21	3.33	3.34	3.45	3.47	3.57	3.48	3.48	3.29	3.40	3.40	3.46	J	3.67	3.59	3.49	3.38	3.33	A	3.33	3.15	71.01	
26	A	3.29	3.10	3.12	3.29	3.31	3.38	3.55	3.35	3.50	3.60	3.49	3.48	3.49	3.50	3.49	3.50	3.56	3.45	3.45	3.41	3.34	3.22	3.25	78.10	
27	3.20	3.22	3.30	3.22	3.30	3.30	3.40	3.48	3.40	3.65	3.45	3.40	3.47	3.25	3.44	3.49	3.50	3.72	3.36	3.49	3.19	3.12	3.40	3.31	82.09	
28	3.18	3.05	3.35	3.31	3.40	A	3.40	3.76	3.71	3.69	3.50	3.45	3.45	3.56	3.50	3.47	3.40	3.55	3.34	3.32	3.31	3.32	3.41	3.22	78.64	
29	3.20	3.20	3.30	3.31	3.30	3.30	3.40	3.60	3.69	3.64	3.50	3.58	3.50	3.43	3.40	3.50	3.44	3.47	3.47	3.38	3.25	3.22	3.30	3.30	82.31	
30	3.10	3.30	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40		
31	3.10	3.30	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40		
Sum	90.42	95.55	94.78	97.35	92.07	98.29	98.77	108.38	107.21	105.44	105.36	101.22	100.30	102.78	99.61	103.82	104.97	98.04	100.02	97.78	92.73	99.01	99.07	2383.62		
Mean ¹	3.14	3.18	3.23	3.24	3.29	3.32	3.40	3.41	3.57	3.51	3.40	3.37	3.34	3.35	3.41	3.43	3.46	3.50	3.38	3.33	3.26	3.20	3.19	3.20		
Median	3.14	3.18	3.22	3.28	3.31	3.41	3.40	3.40	3.50	3.41	3.40	3.37	3.37	3.39	3.42	3.44	3.50	3.48	3.40	3.33	3.25	3.21	3.20	3.20		

¹For all days of the month²For quiet days

F2-M3500

October, 1944

TABLE 54

IONOSPHERE DATA-12

Washington, D. C.

Ionosphere Station

National Bureau of Standards

(Institution)

Hourly values of FI-M3000 for October 1944
(Month)

RESTRICTED

Project: 10-10-44 S.J. S.M.O.
H.P.G.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1								373	362 ^M	363	369	363	363	364	364	364	364								32.66		
2								391 ^M	360	370 ^M	389	374	362	366 ^M	369	C	C								29.81		
3								C	C	378 ^M	391	363	355	368 ^M	357	374	371								25.81		
4										382	A	363	351	377	365	363	370								25.71		
5										374	356	350	360	355	365										21.65		
6									360 ^M	370	381	364 ^M	362	372	361 ^M	370									29.40		
7									366	342 ^M	369 ^M	360	C	357	347	365	375								28.81		
8									377	398	380	350	357	378 ^M	369	369	369								29.52		
9									383	378	365	355	354	348	353	360	360								32.86		
10									370	350	374	370	348	350	360	371	360								33.11		
11									370	360	343 ^M	354	354	335 ^M	335	340 ^M	344 ^M								31.47		
12									A	370	A	A	A	A	360	347									14.26		
13									371	390	350 ^M	359	344 ^M	348 ^M	355 ^M	360	A	A							25.14		
14									360	347	343	347	357	358 ^M	353	353									24.71		
15									374 ^M	374	360 ^M	377 ^M	349 ^M	348 ^M	350 ^M	354 ^M	360								32.07		
16									370	372	371	371	371	360	370	372									15.25		
17									364	374	364	363	358 ^M	363	353	355	A	A							25.24		
18									A	361	350 ^M	370 ^M	369 ^M	369 ^M	363	363									21.43		
19									345	350	353	363	350 ^M	368	370	A									25.75		
20									351	363	367	359	351 ^M	362	361										25.24		
21									370 ^M	390	390	370	370 ^M	350 ^M	350										22.19		
22									390	372	372	348 ^M	361 ^M	362 ^M	360	A									21.43		
23									344 ^M	365 ^M	360	A	366												14.37		
24									370 ^M	370 ^M	363 ^M	363 ^M	360	360	345										21.70		
25									380	400	H		A												18.98		
26									370	370	380	371	360	376	360										20.60		
27									370	370	370 ^M		H	350 ^M	350	350									14.50		
28									370				360	360	360										8.34		
29									370 ^M	373 ^M	390			354	340										8.66		
30									370	377			363	370	370										15.11		
31									373 ^M	373 ^M	373 ^M	373 ^M	373 ^M	373 ^M	373 ^M										14.66		
Sum									373	373	373	373	373	373	373	373	373								747.20		
Mean ¹																											
Mean ²																											
Median																											

¹ For all days of the month

² For quiet days

FI-M3000

October, 1944

Washington, D. C.

(Location)

National Bureau Of Standards

(Institution)

TABLE 55

IONOSPHERE DATA-13

Hourly values of E-M1500 for October 1944

(Month)

TIME: 75° W MERIDIAN

RESTRICTED

Records measured by: S.M.O.
H.P.G.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1								3 71	3 99	B	B	B	B	B	B	B	(3 90)	3 73							15 33		
2								3 90	(3 83)	(3 90)	B	(3 85)	B	B	(3 90)	C	C	C							19 38		
3								C	C	C	B	B	B	(3 72)	(3 75)	(3 82)	3 90	3 60							18 79		
4								3 85	A	A	A	B	A	A	A	(3 83)	(4 10)	A							11 78		
5								(3 79)	B	B	A	A	A	B	(3 81)	B	3 79	3 85							15 24		
6								3 67	(3 68)	(4 00)	(3 95)	(4 00)	3 84	3 91	3 79	(3 90)	3 64	3 68							42 06		
7								3 83	3 82	3 80	A	A	C	(4 03)	(3 89)	(3 95)	3 82	A							27 14		
8								(3 74)	A	(4 02)	A	A	(4 08)	(3 95)	3 81	(3 90)	3 70	(4 31)							31 51		
9								A	A	A	(4 05)	3 75	3 73	3 90	3 81	A	A	A							19 24		
10								(3 62)	A	A	A	(3 95)	(4 09)	(3 81)	A	3 98	3 80	(3 49)							26 74		
11									A	A	A	A	(3 85)	3 95	A	A	A	A							7 80		
12									A	A	A	A	A	A	A	A	3 75	(3 51)							7 26		
13								A	(3 80)	(3 80)	(3 90)	(3 70)	4 00	3 78	(3 87)	A	A	A							26 85		
14								A	A	A	A	A	3 90	A	3 89	A	A	F							7 79		
15								(3 10)	A	(3 90)	3 70	A	3 80	3 71	A	(3 80)	(3 90)	(3 42)							33 23		
16								A	A	(3 89)	B	(4 19)	(3 70)	(3 80)	3 82	3 75	4 00								27 15		
17								F	A	A	(3 73)	3 55	3 81	3 90	3 99	A	A	A							18 98		
18								A	(3 91)	A	A	(3 85)	(3 82)	(3 94)	(4 00)	3 74	A								23 26		
19								(3 73)	A	3 90	3 84	3 87	(3 66)	3 71	3 92	A	A	A	F						26 63		
20								(3 67)	A	(3 73)	A	A	A	3 89	3 79	A	A	A							15 08		
21								A	A	A	(3 95)	3 90	3 67	3 80	A	3 83	3 64								22 79		
22								(3 60)	A	3 85	3 90	3 70	3 70	3 77	(3 76)	A	(3 89)	A							30 17		
23								(3 44)	3 60	3 70	3 70	(3 72)	A	(4 04)	(3 94)	A	A	A							26 74		
24										A	A	3 80	(3 68)	3 50	(3 80)	A	3 72								18 50		
25								A	A	(3 86)	(3 95)	A	A	A	A	A									7 81		
26									3 82	3 89	3 69	A	A	(3 90)	(3 94)	A	(3 70)	A							22 94		
27									A	3 85	3 85	(3 90)	3 70	A	(3 71)	A	A	A							19 01		
28								(3 70)	A	A	A	A	A	(4 00)	(3 79)	3 50	3 50	A							18 49		
29								(3 90)	3 48	(4 00)	3 70	(3 82)	(3 82)	(3 90)	4 00	(3 90)	3 80								38 32		
30									(3 75)	A	(3 89)	(3 65)	3 79	(4 20)	(3 95)	3 94	A								27 17		
31								C	(3 75)	(3 72)	3 59	(3 95)	A	(3 75)	(3 90)	(3 98)	(3 95)								30 79		
Sum								52 15	45 33	61 61	53 69	68 95	68 55	85 35	92 63	53 92	68 50	29 59							683 37		
Mean ¹								3 72	3 78	3 85	3 84	3 83	3 81	3 88	3 86	3 85	3 80	3 70									
Mean ²								3 72	3 77	3 86	3 84	3 83	3 81	3 88	3 86	3 85	3 80	3 74									
Median								3 72	3 81	3 86	3 87	3 84	3 80	3 90	3 84	3 90	3 80	3 64									

For all days of the month

2 For quiet days

E-M1500

October, 1944

Table 56

Ionospheric Storminess, October, 1944

Day	Ionospheric Character**		Principal Storms		Magnetic Character**	
	00-12 GCT	12-24 GCT	Beginning GCT	End GCT	00-12 GCT	12-24 GCT
October						
1	2	1			3	3
2	2	2			1	2
3	2	1			3	3
4	2	1			1	1
5	1	2			1	1
6	1	2			2	2
7	2	3			1	1
8	2	2			0	1
9	2	1			1	0
10	2	2			1	2
11	2	4	1600	-----/	3	4
12	5	3	-----	1030	1	2
13	3	2			1	2
14	2	3	2100	-----	2	3
15	4	4	-----	-----	4	3
16	4	1	-----	1030	2	2
17	2	1			2	2
18	1	1			2	1
19	2	2			1	0
20	2	2			0	1
21	1	2			1	1
22	1	1			2	1
23	2	3			2	3
24	1	0			3	3
25	2	0			1	2
26	1	2			3	1
27	2	2			1	2
28	2	2			2	2
29	1	1			1	1
30	1	1			2	1
31	1	0			3	2

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

/Dashes indicate continuance of ionospheric storminess.

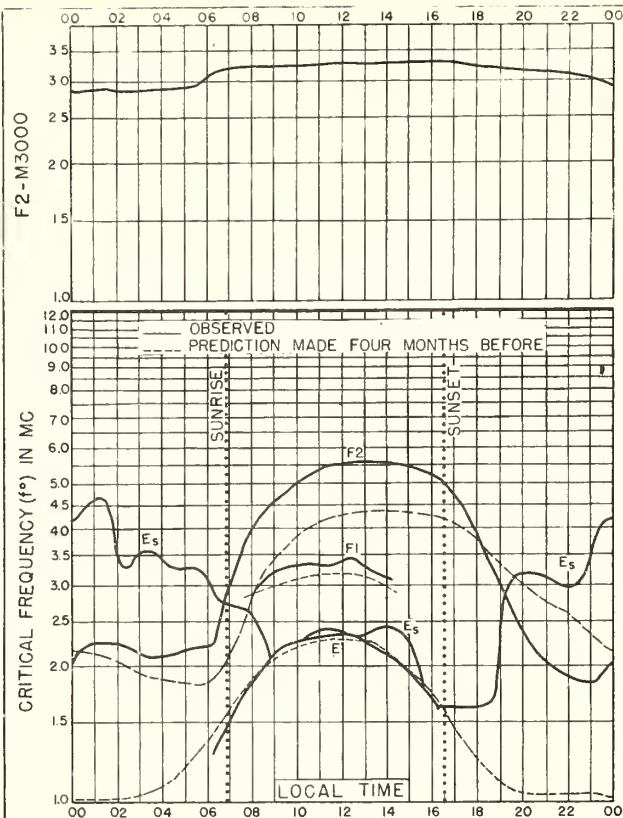


Fig. 1. FAIRBANKS, ALASKA
64.9°N, 147.8°W

OCTOBER, 1944

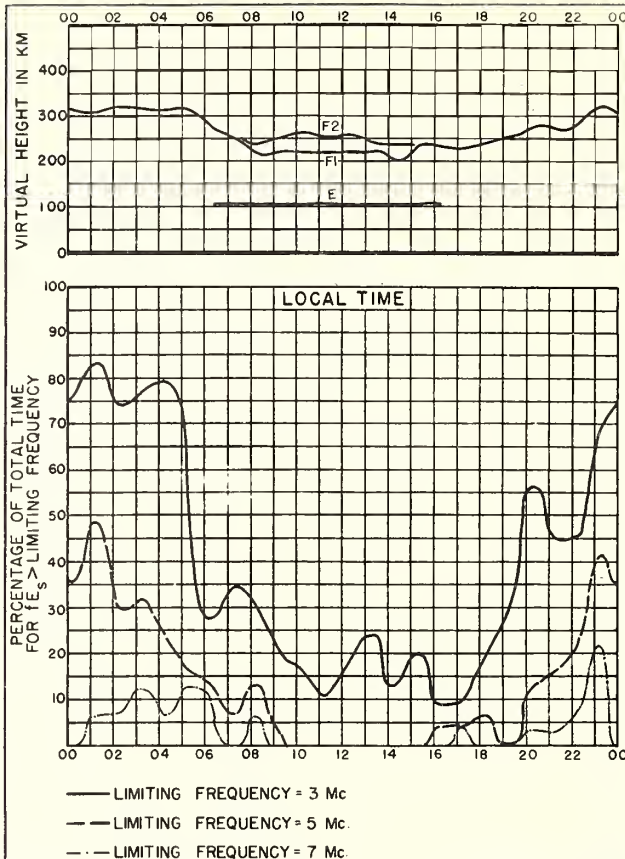


Fig. 2. FAIRBANKS, ALASKA

OCTOBER, 1944

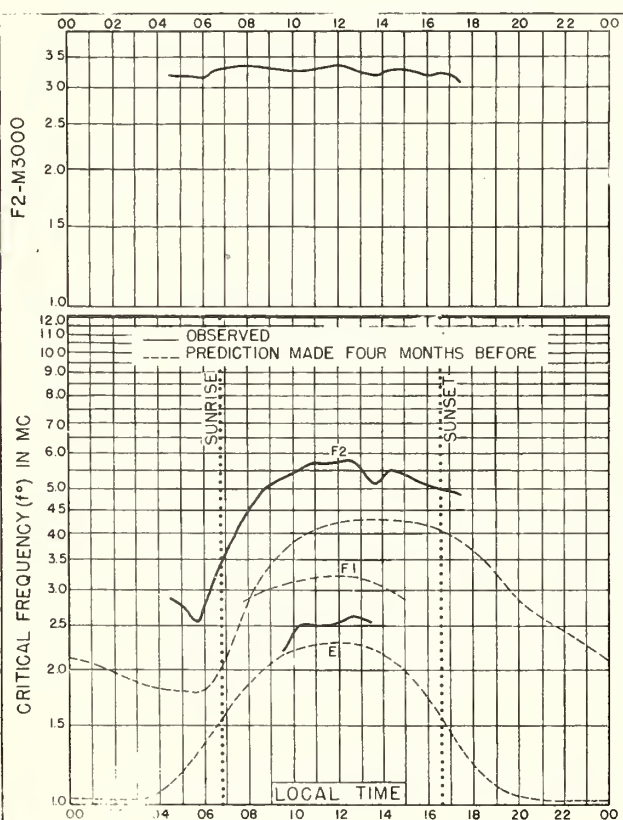


Fig. 3. REYKJAVIK, ICELAND
64.1°N, 21.7°W

OCTOBER, 1944

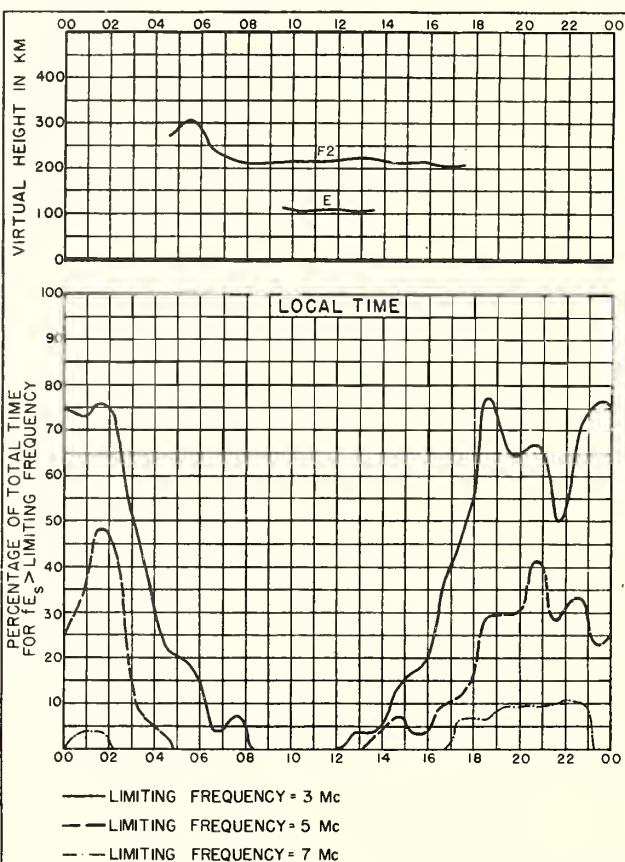


Fig. 4. REYKJAVIK, ICELAND

OCTOBER, 1944

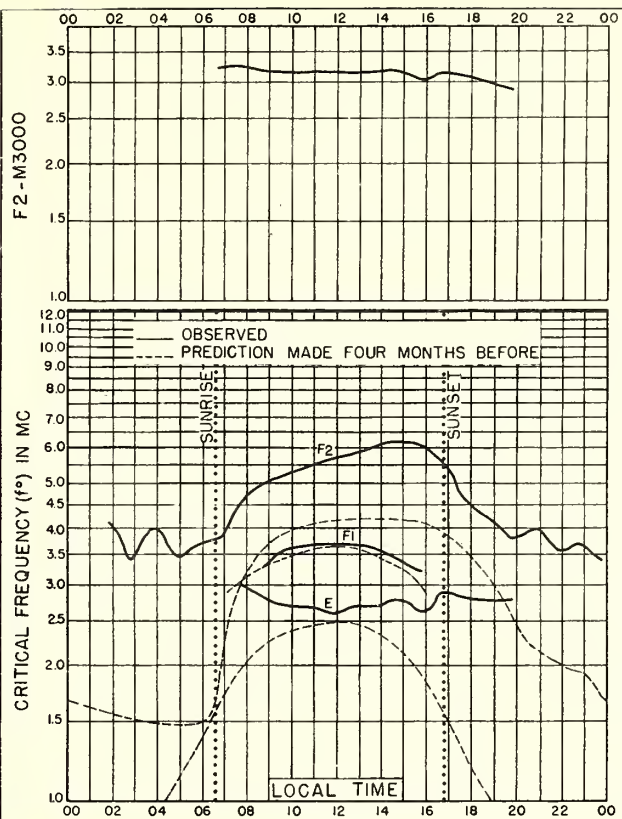


Fig. 5. CHURCHILL, CANADA
58.8°N, 94.2°W

OCTOBER, 1944

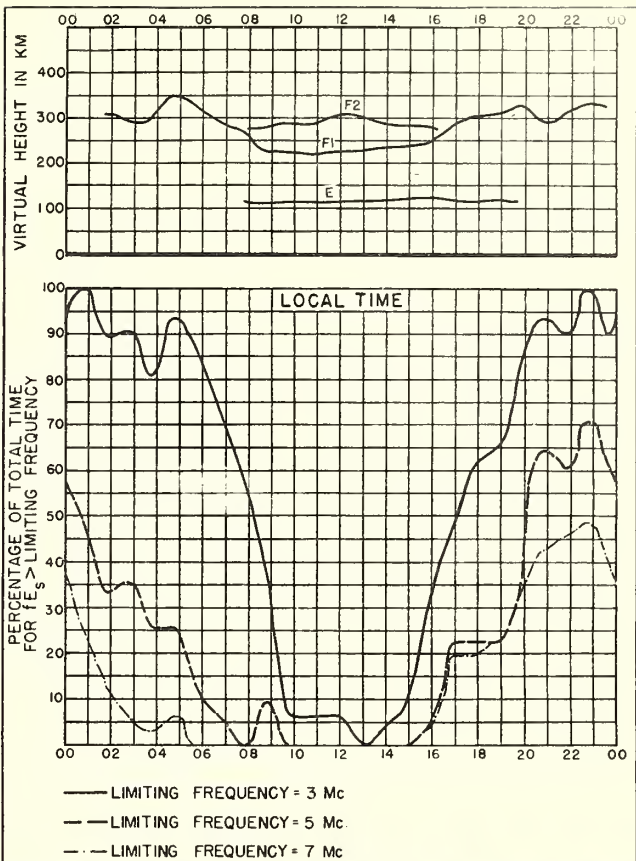


Fig. 6. CHURCHILL, CANADA

OCTOBER, 1944

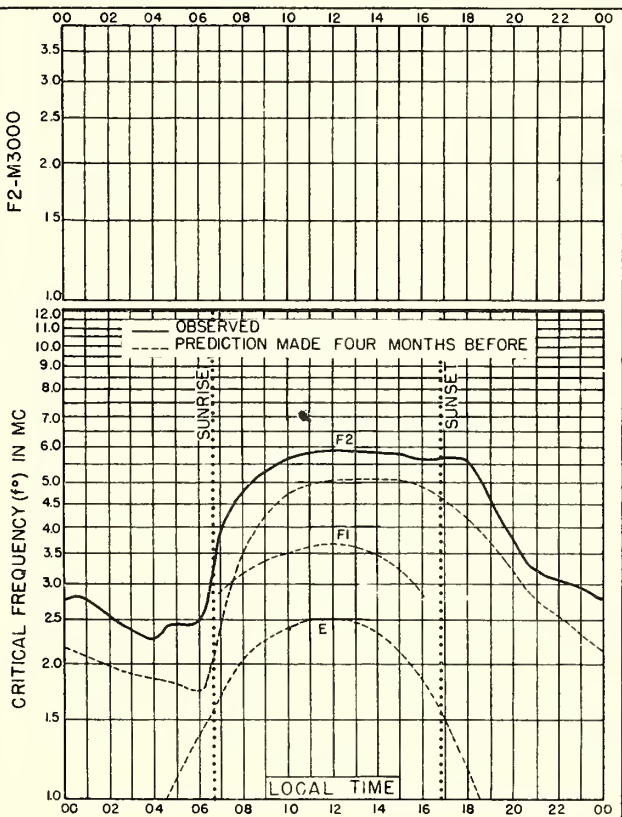


Fig. 7. BURGHEAD, SCOTLAND
57.7°N, 3.5°W

OCTOBER, 1944

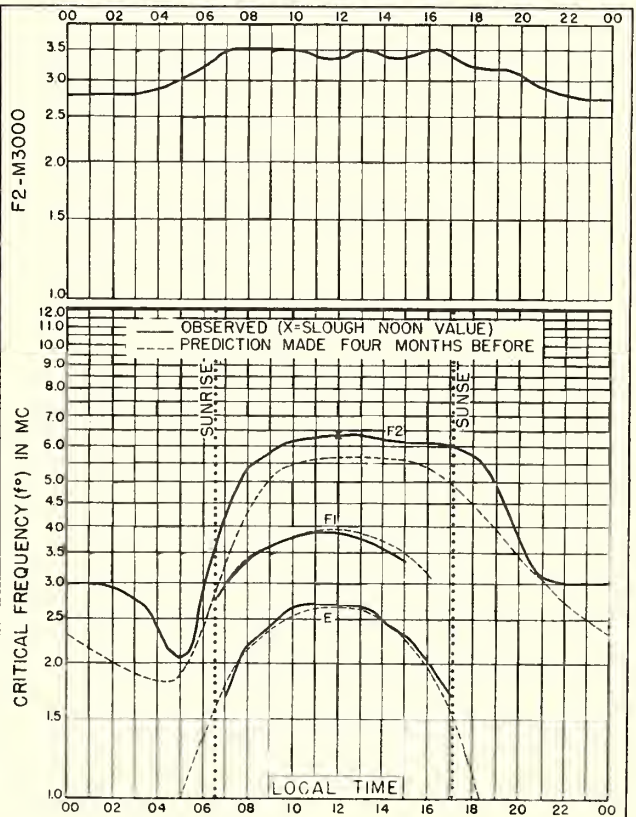


Fig. 8. GREAT BADDOW, ENGLAND
51.7°N, 0.5°E

OCTOBER, 1944

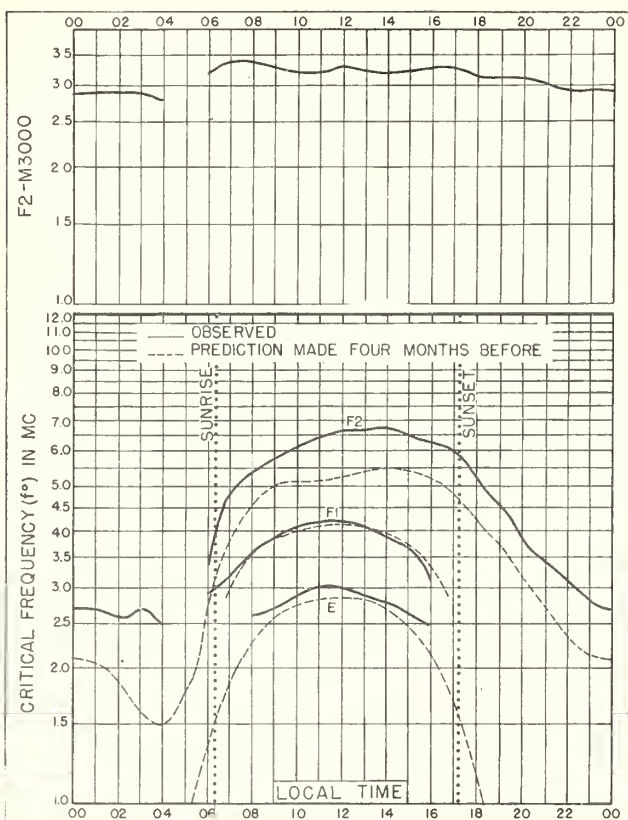


Fig 9 OTTAWA, CANADA
45.5°N, 758°W

OCTOBER, 1944

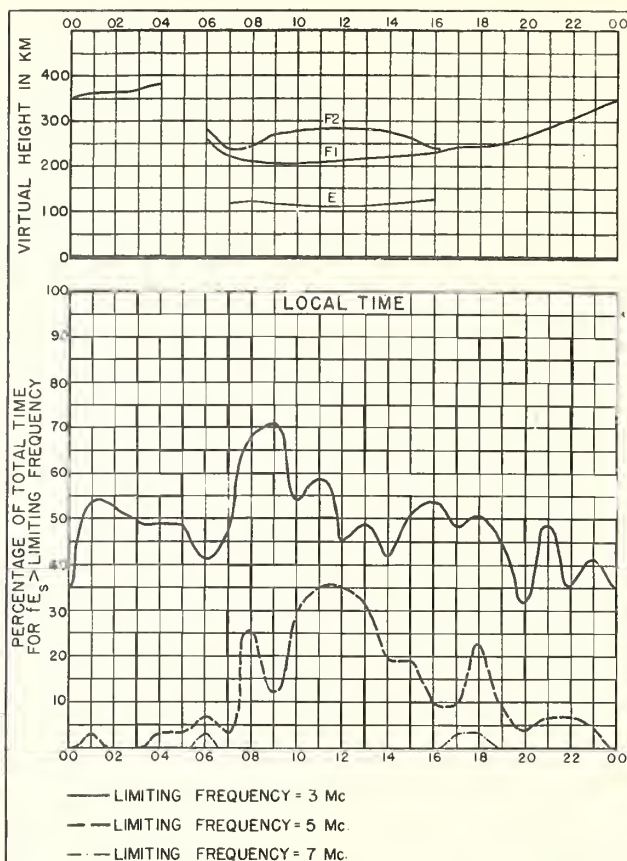


Fig 10. OTTAWA, CANADA

OCTOBER, 1944

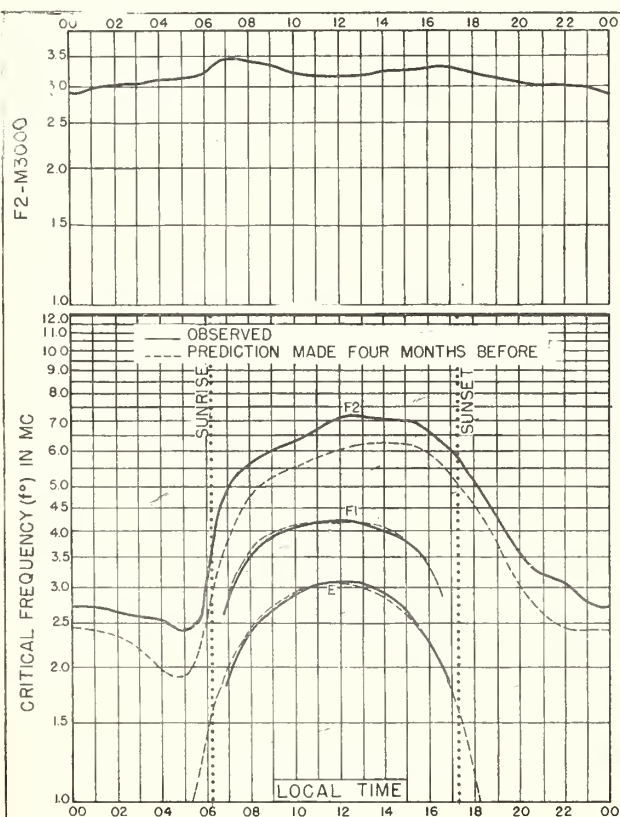


Fig 11. WASHINGTON, D.C.
39.0°N, 77.5°W

OCTOBER, 1944

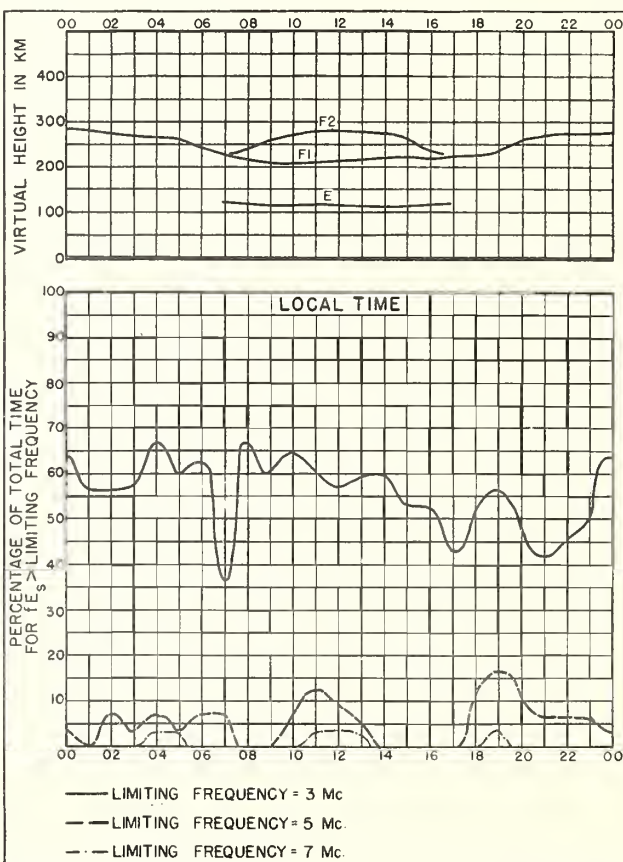


Fig 12 WASHINGTON, D.C.

OCTOBER, 1944

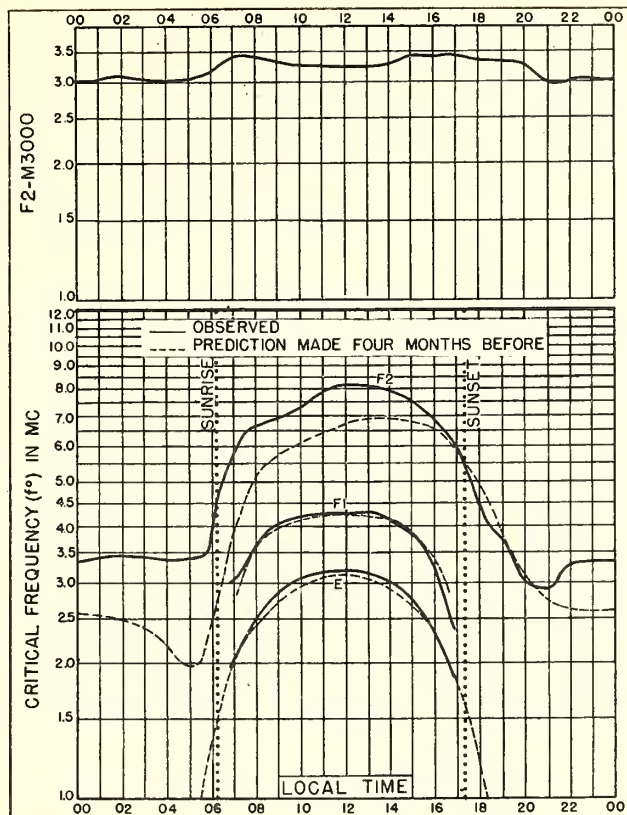


Fig.13. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W
OCTOBER, 1944

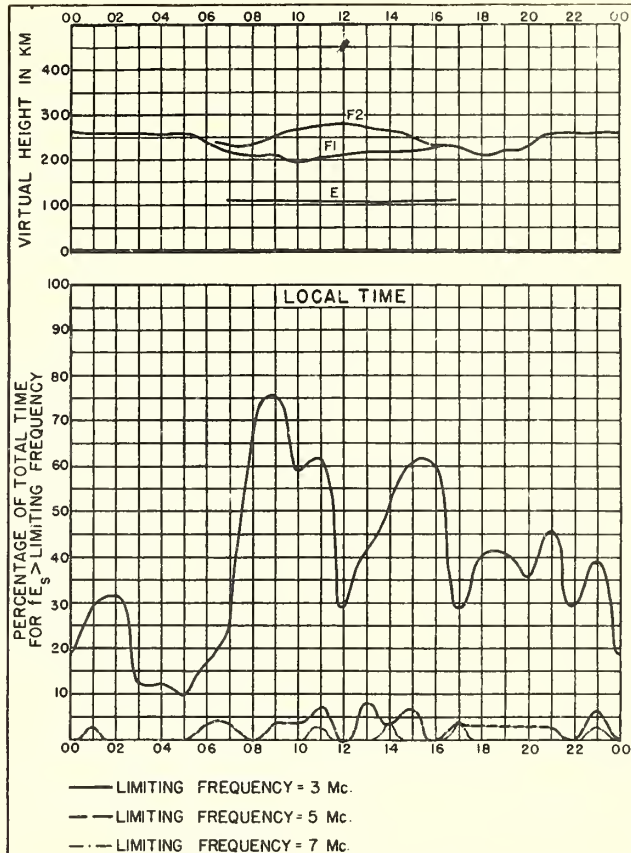


Fig.14. SAN FRANCISCO, CALIFORNIA
OCTOBER, 1944

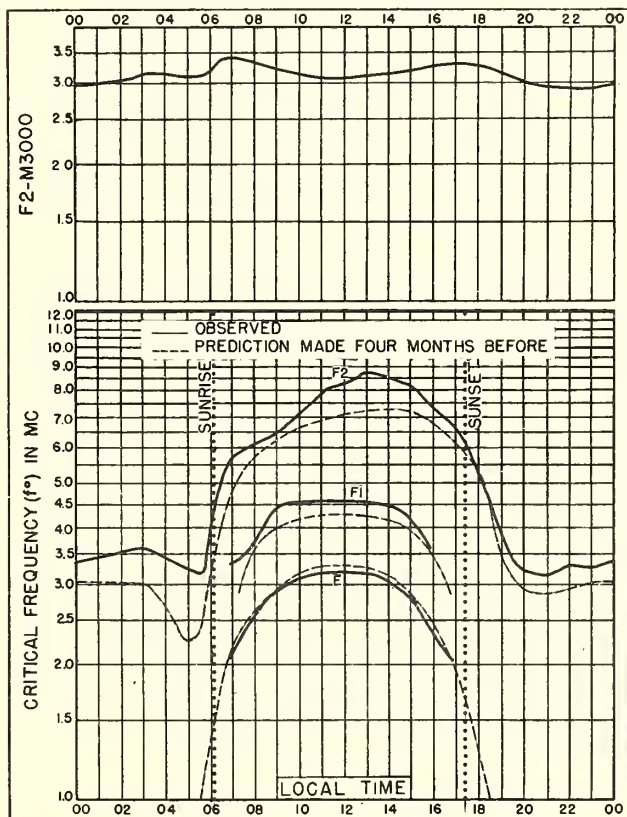


Fig.15. BATON ROUGE, LOUISIANA
30.5°N, 91.2°W
OCTOBER, 1944

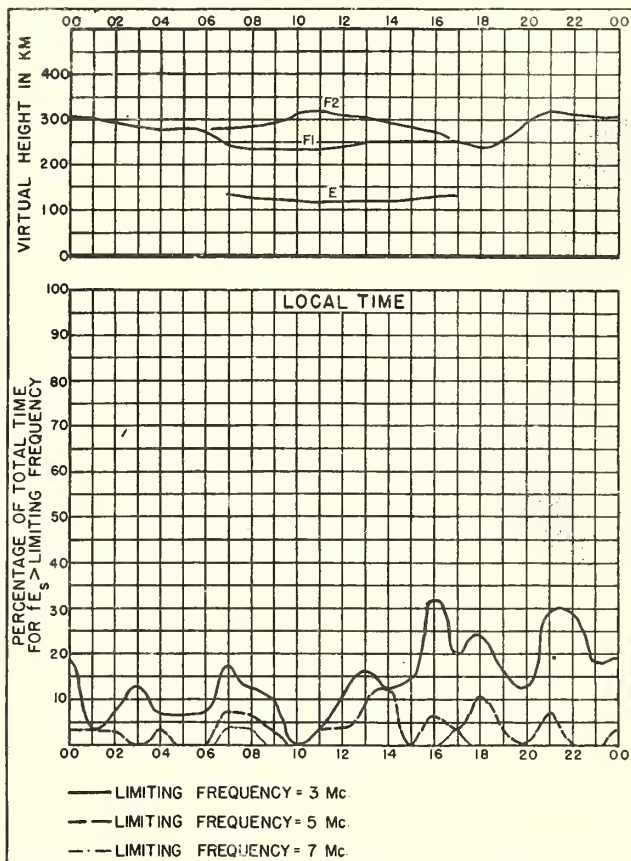


Fig.16. BATON ROUGE, LOUISIANA
OCTOBER, 1944

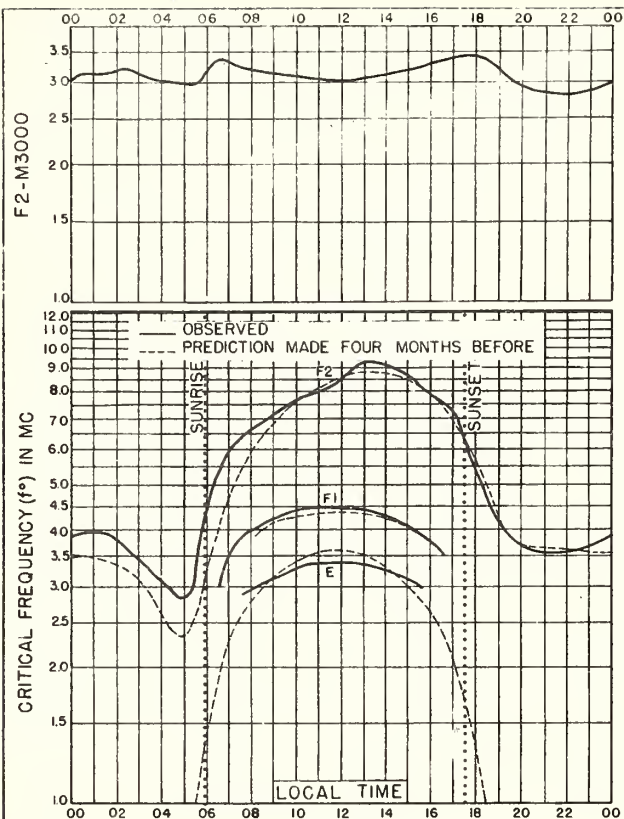


Fig 17. SAN JUAN, PUERTO RICO
18.4°N, 66.1°W

OCTOBER, 1944

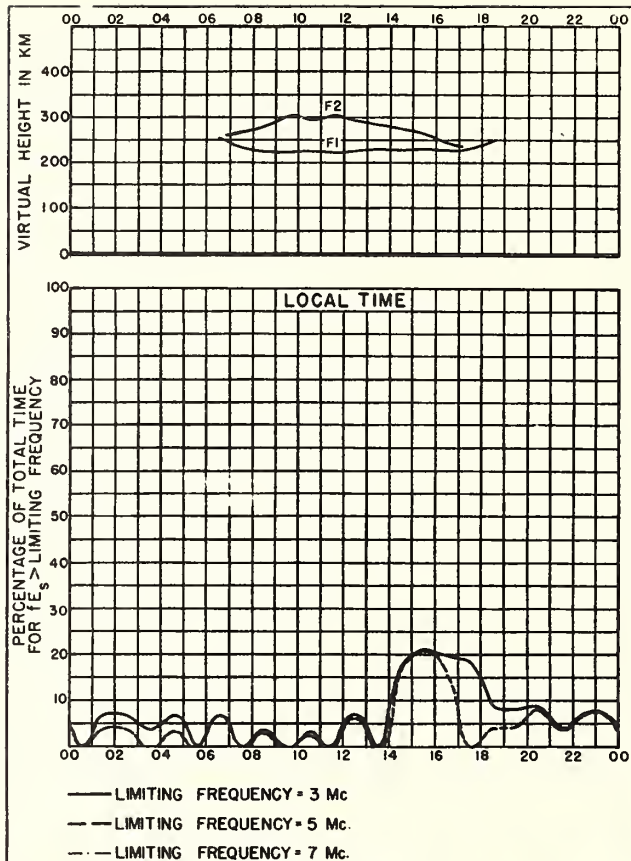


Fig 18. SAN JUAN, PUERTO RICO

OCTOBER, 1944

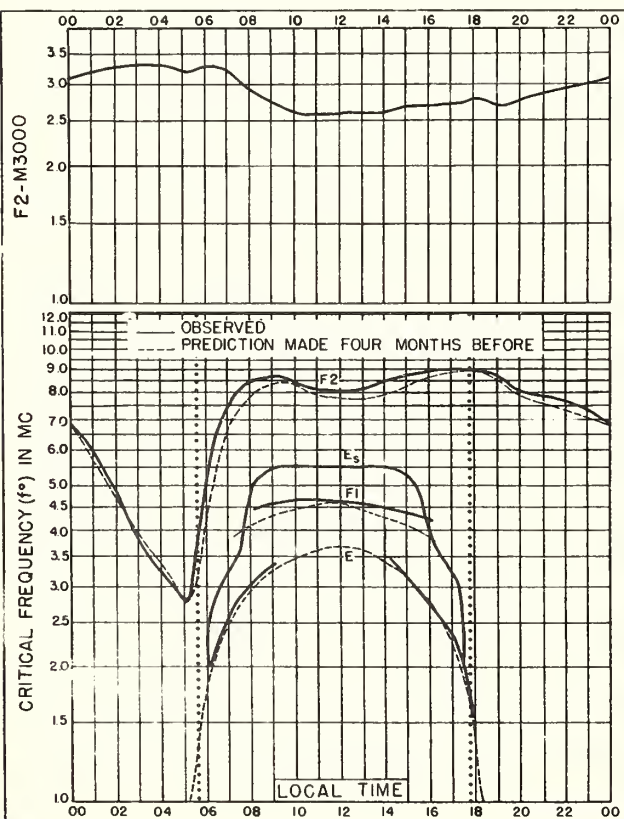


Fig 19. HUANCAYO, PERU
12.0°S, 75.3°W

OCTOBER, 1944

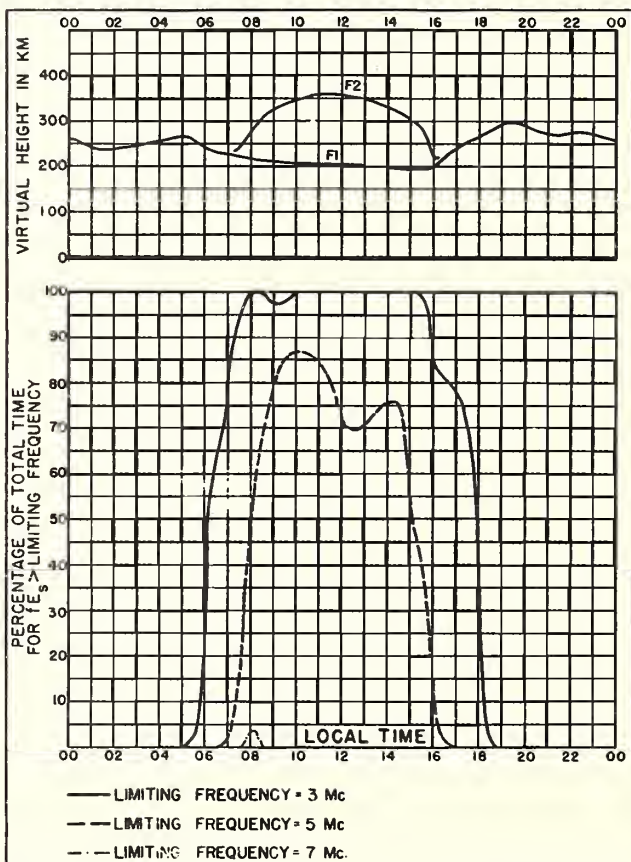


Fig 20. HUANCAYO, PERU

OCTOBER, 1944

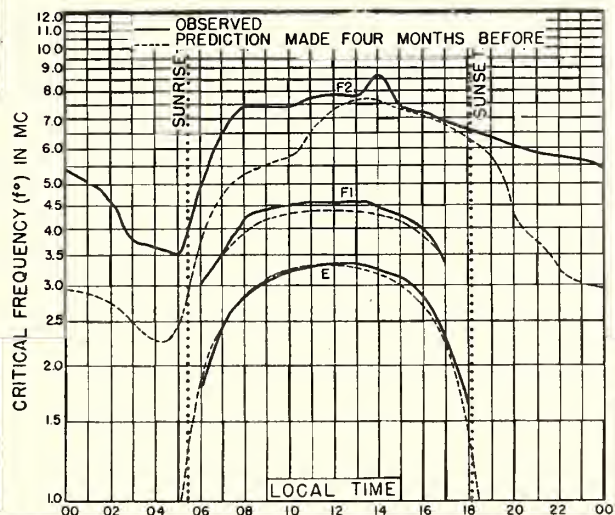
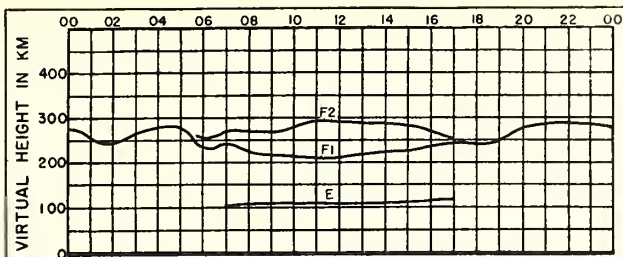


Fig 21. KERMADEC IS.
29.2°S, 177.9°W
OCTOBER, 1944

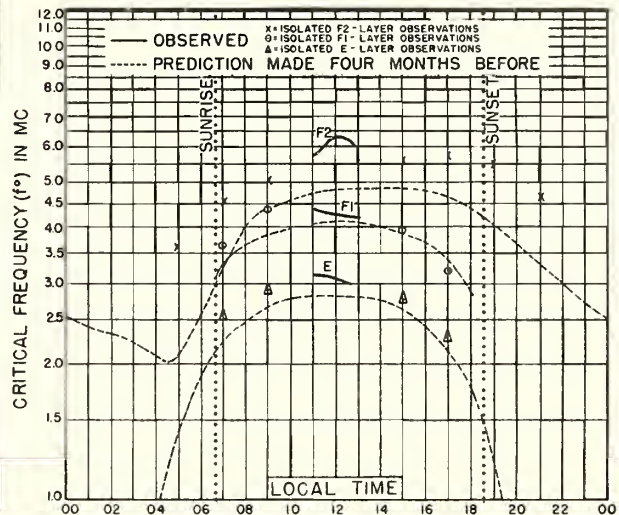
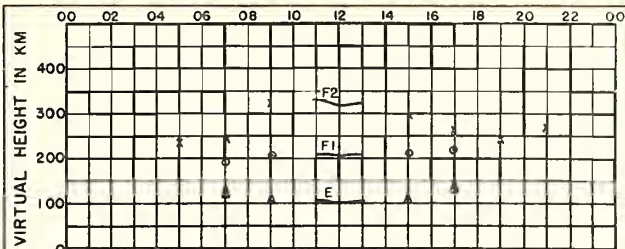


Fig 22. CAMPBELL IS.
52.0°S, 169.0°E
OCTOBER, 1944

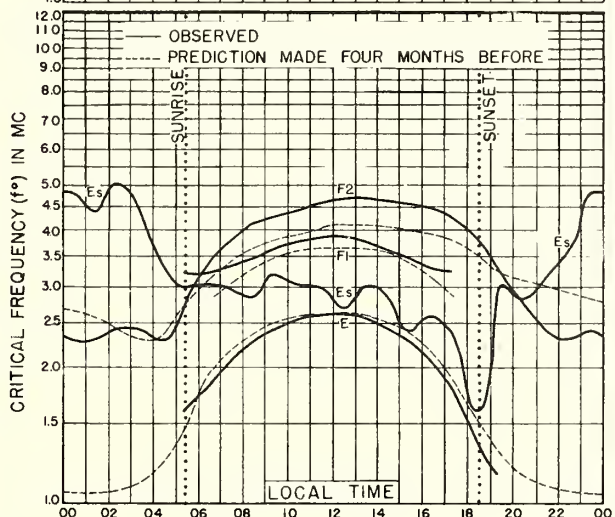
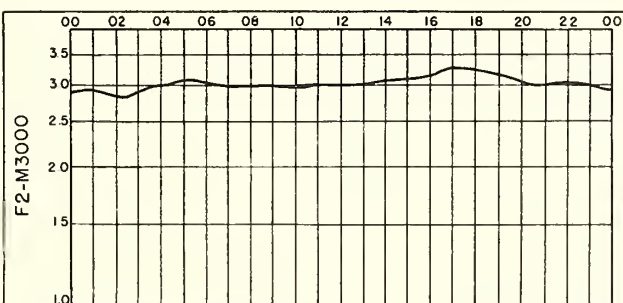


Fig 23. FAIRBANKS, ALASKA
64.9°N, 147.8°W
SEPTEMBER, 1944

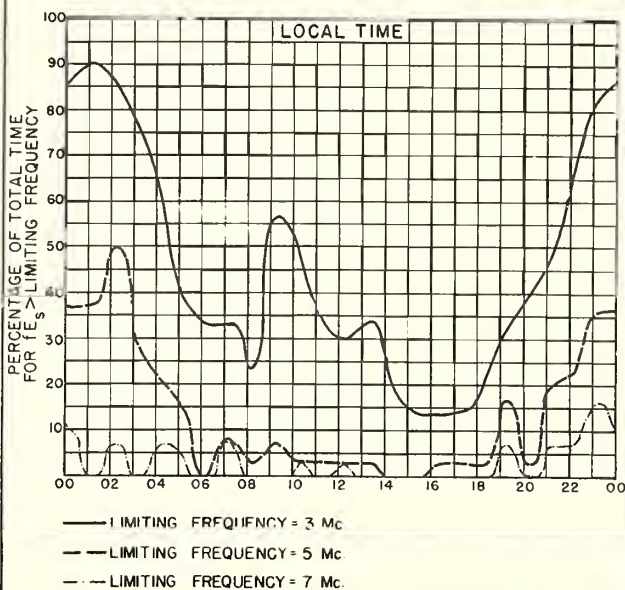
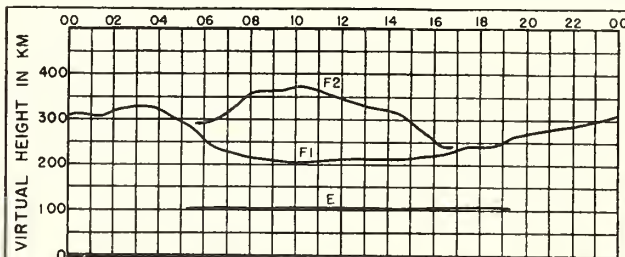
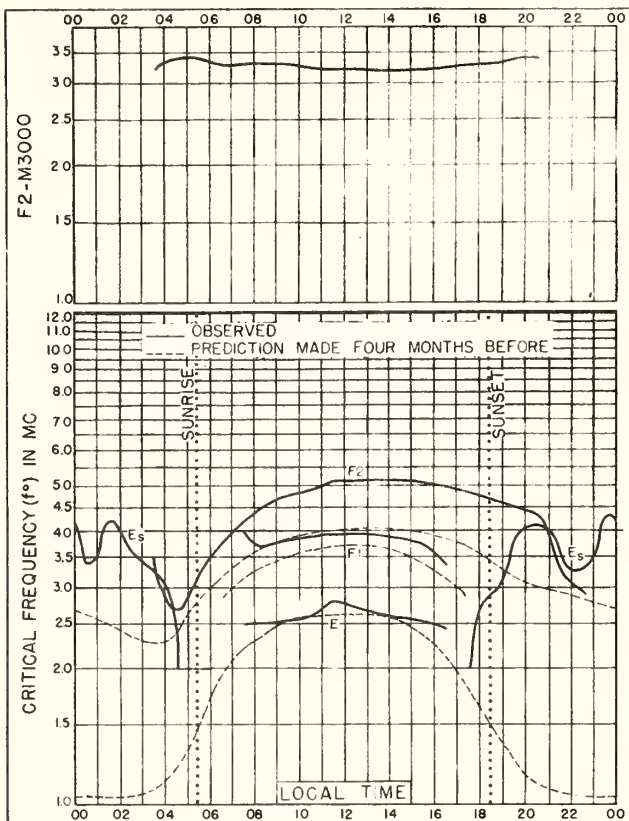
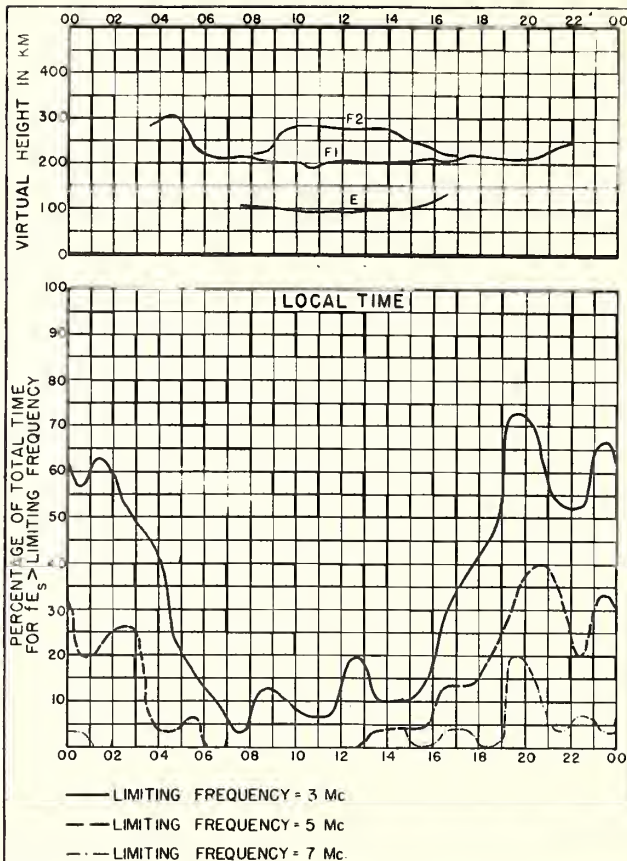


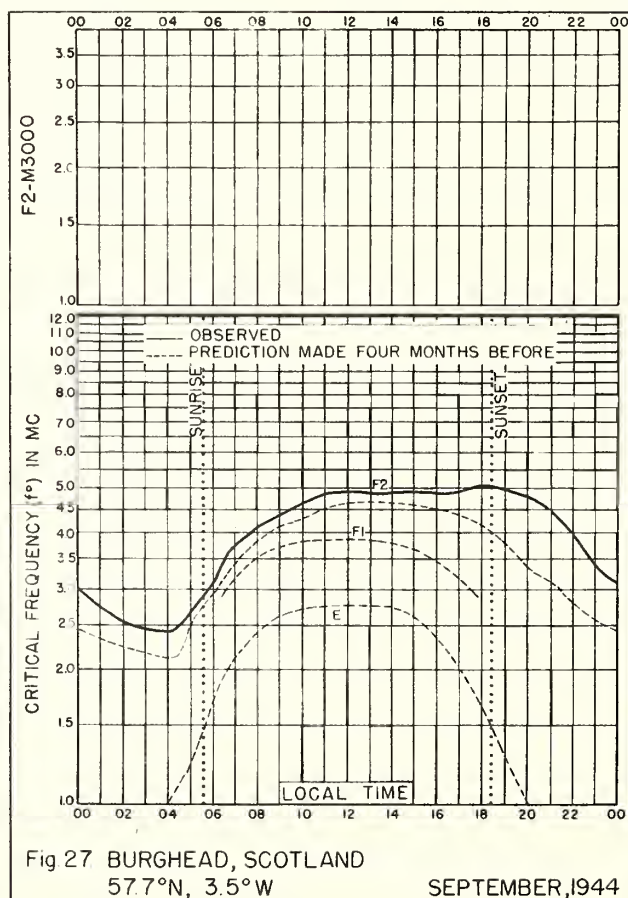
Fig 24. FAIRBANKS, ALASKA
SEPTEMBER, 1944



SEPTEMBER, 1944



SEPTEMBER, 1944



SEPTEMBER, 1944

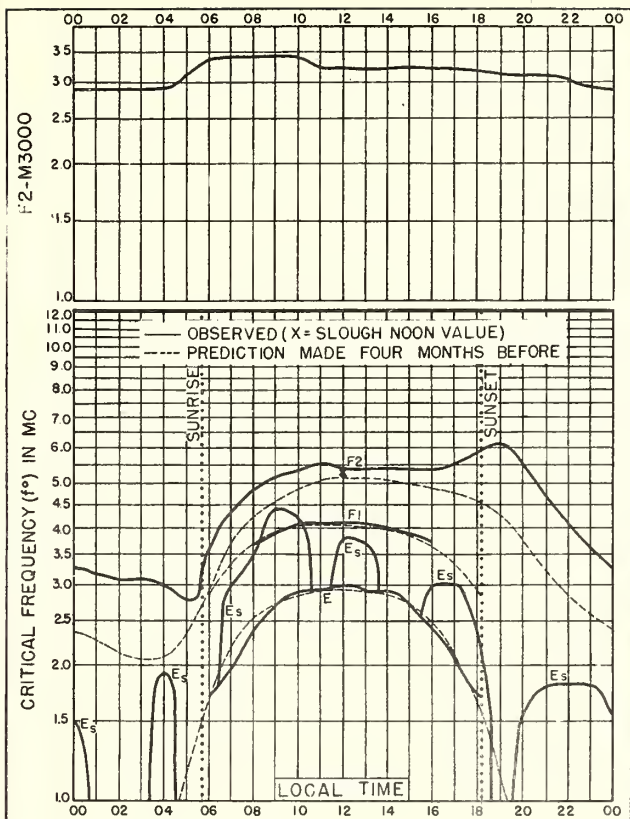


Fig 28. GREAT BADDOW, ENGLAND
51.7°N, 0.5°E

SEPTEMBER, 1944

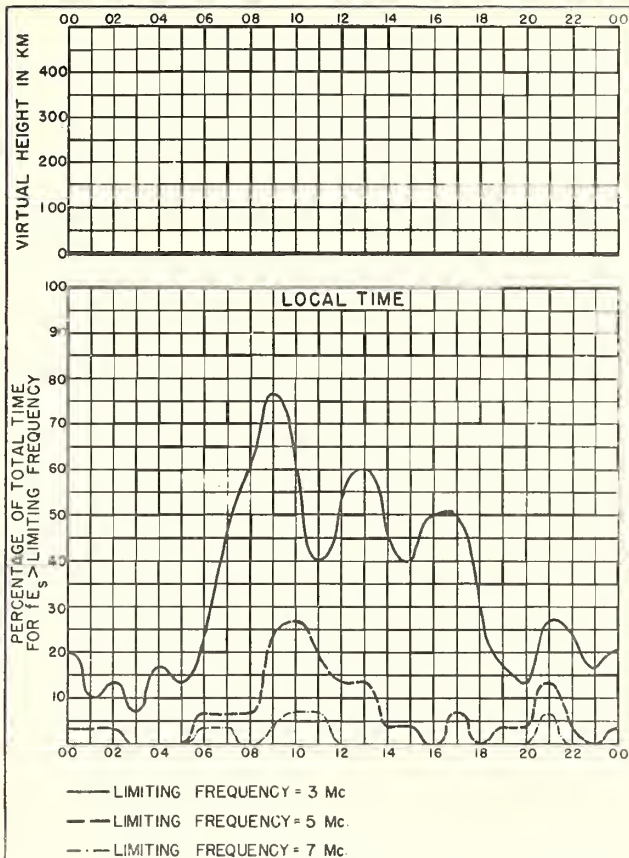


Fig 29. GREAT BADDOW, ENGLAND

SEPTEMBER, 1944

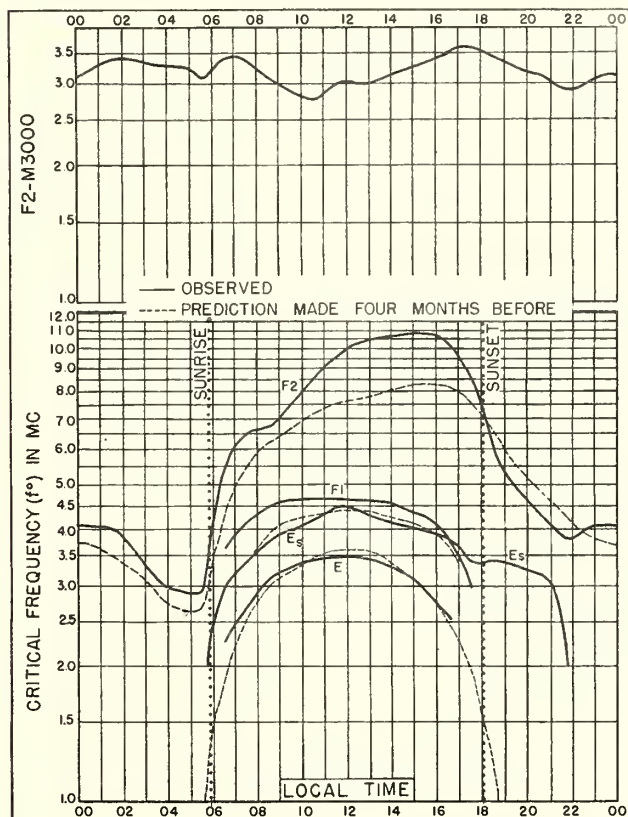


Fig 30. MAUI, HAWAII
20.8°N, 156.5°W

SEPTEMBER, 1944

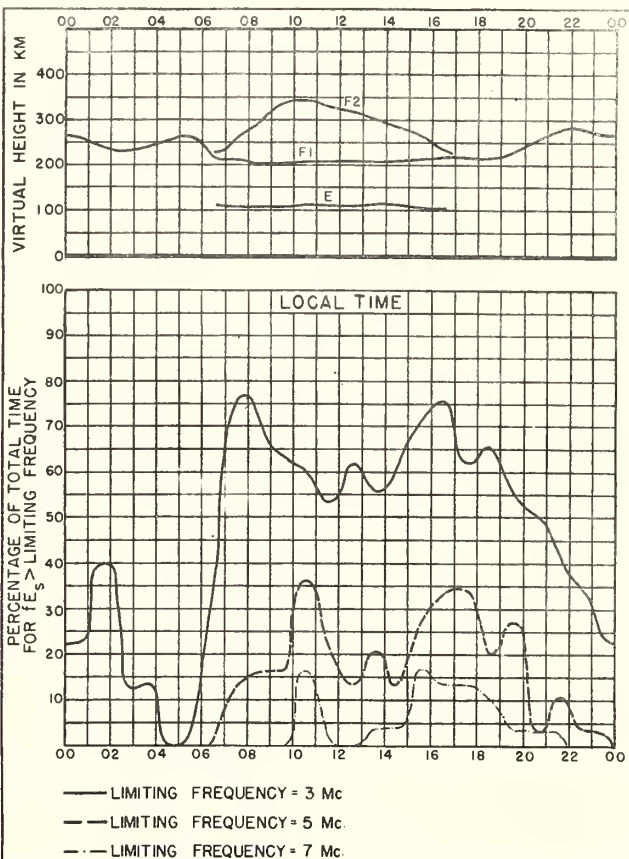
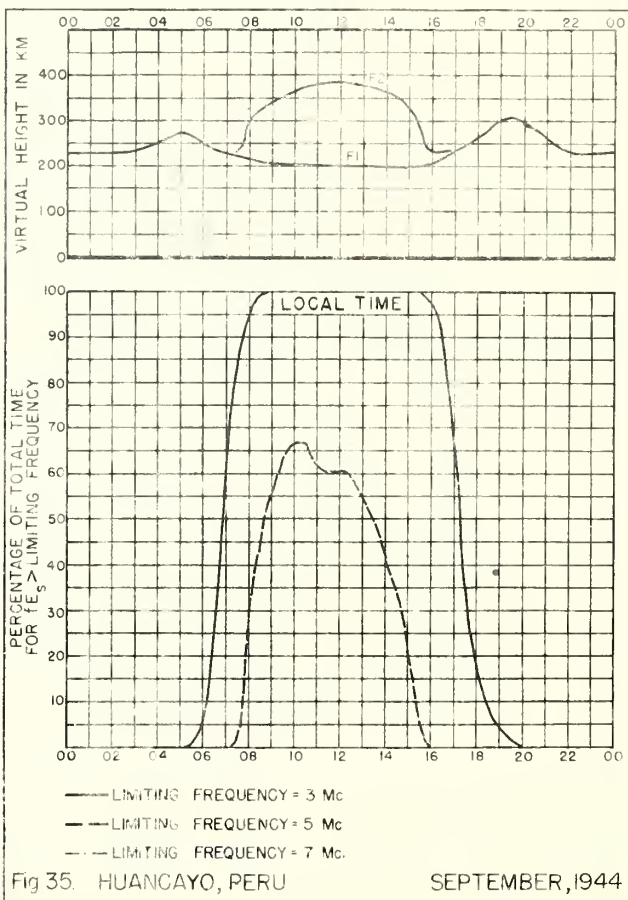
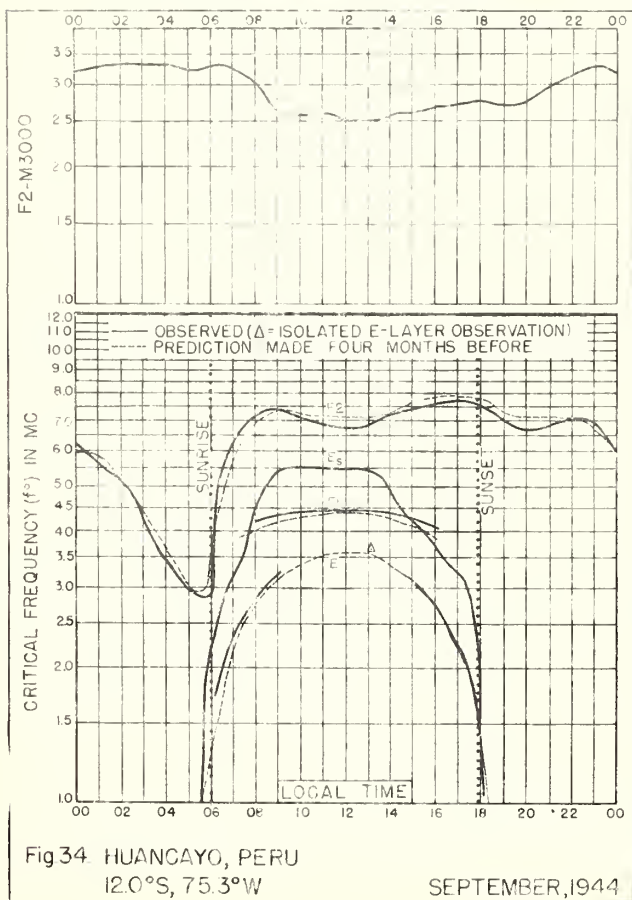
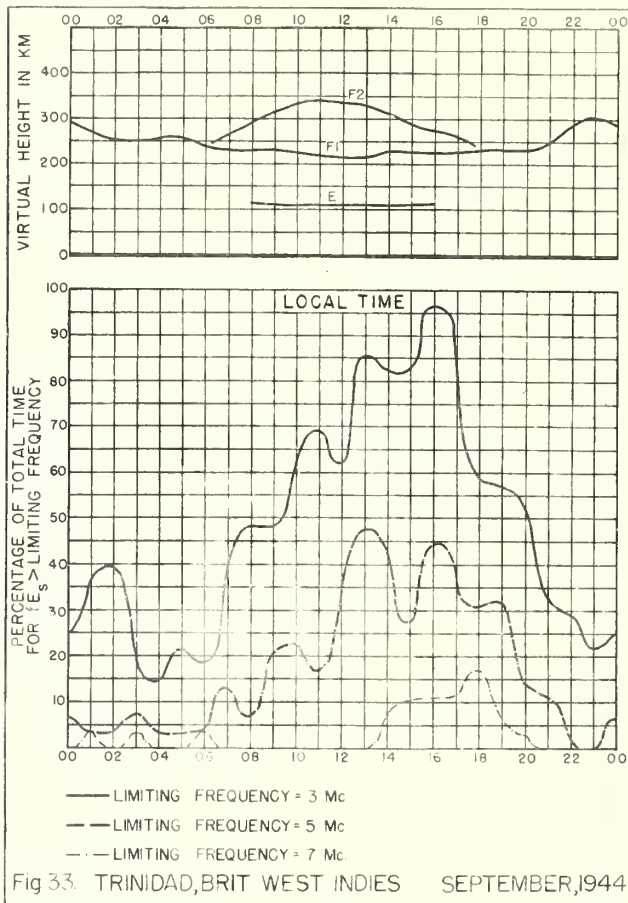
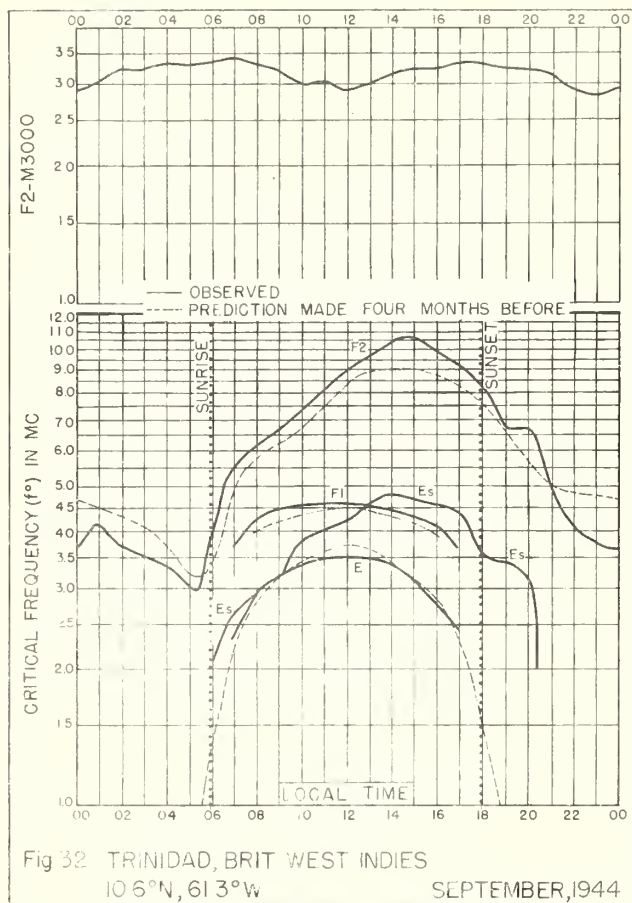


Fig 31. MAUI, HAWAII

SEPTEMBER, 1944



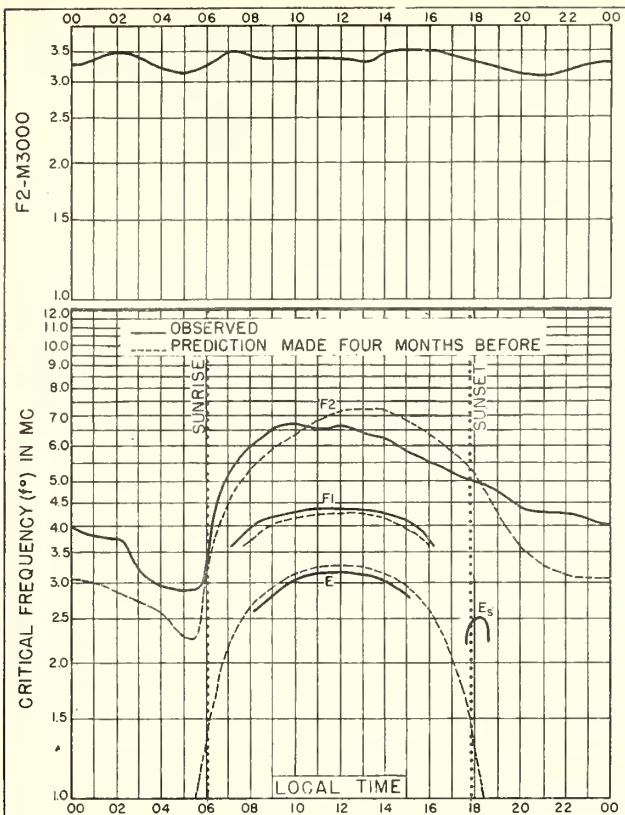


Fig 36. BRISBANE, Q, AUSTRALIA
27.5°S, 153.0°E

SEPTEMBER, 1944

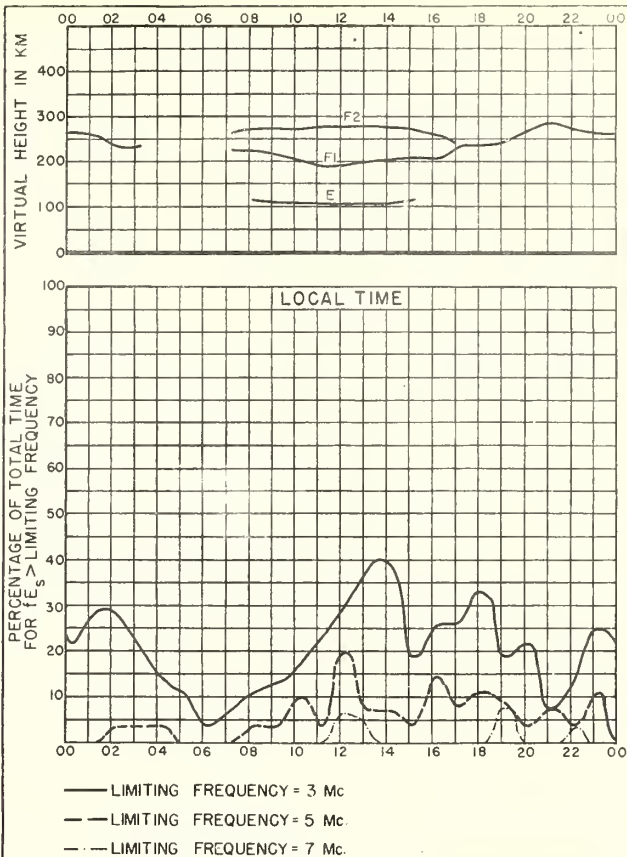


Fig 37. BRISBANE, Q, AUSTRALIA

SEPTEMBER, 1944

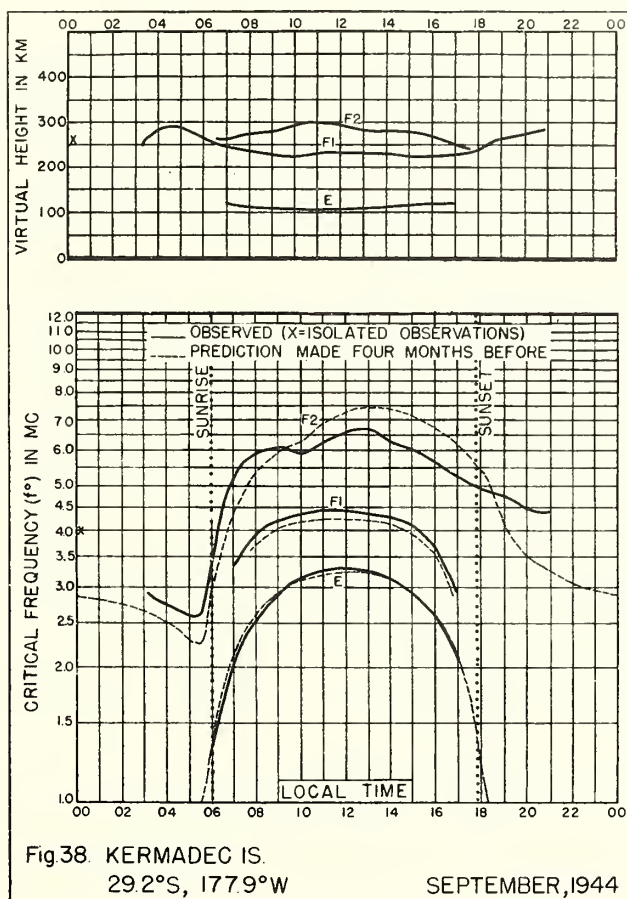


Fig 38. KERMADEC IS.
29.2°S, 177.9°W

SEPTEMBER, 1944

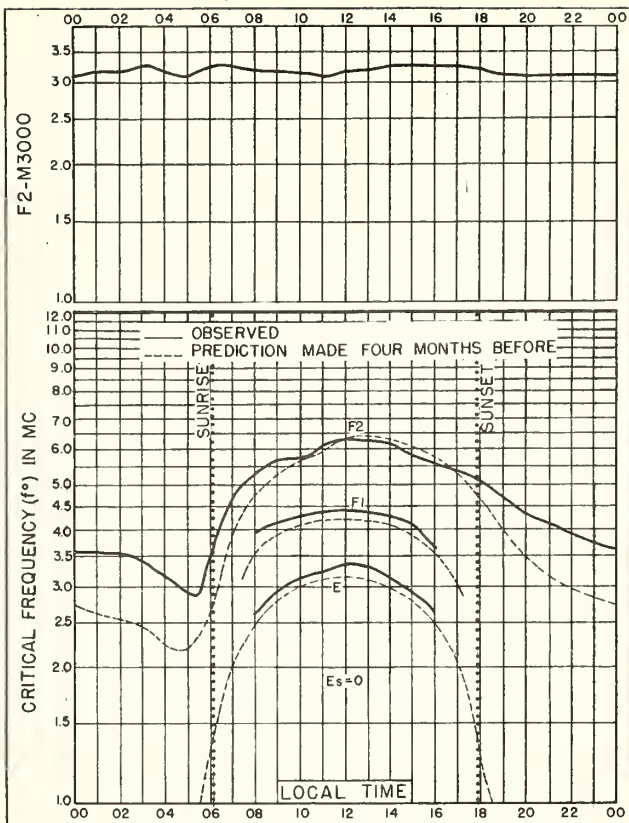


Fig. 39. MT. STROMLO, N.S.W., AUSTRALIA
35.3°S, 149.0°E SEPTEMBER, 1944

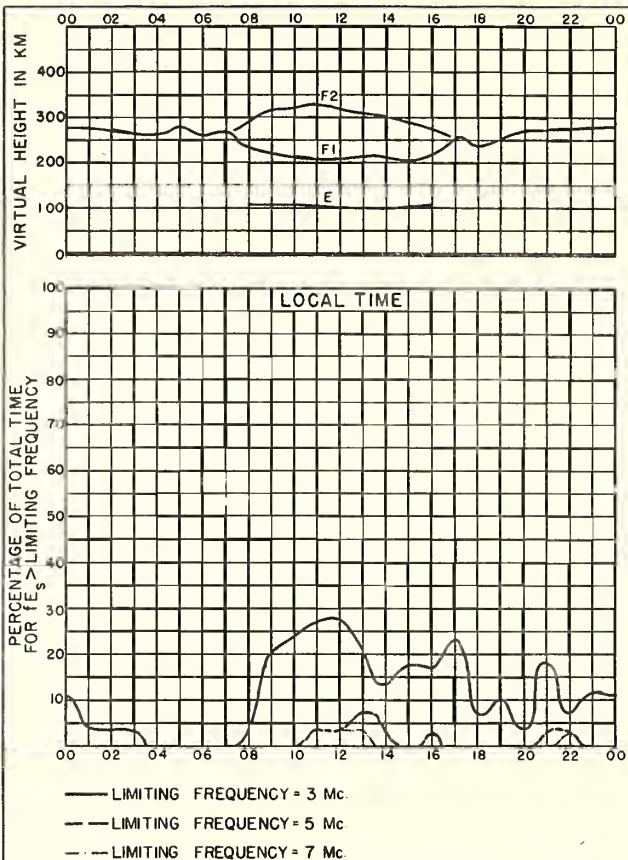


Fig. 40. MT. STROMLO, N.S.W., AUSTRALIA SEPTEMBER, 1944

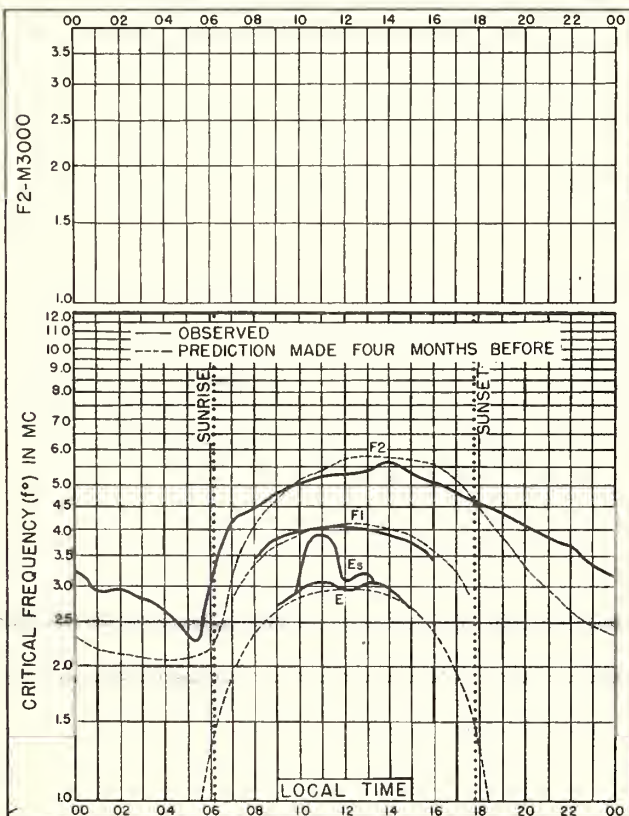


Fig. 41. CHRISTCHURCH, NEW ZEALAND
43.5°S, 172.6°E SEPTEMBER, 1944

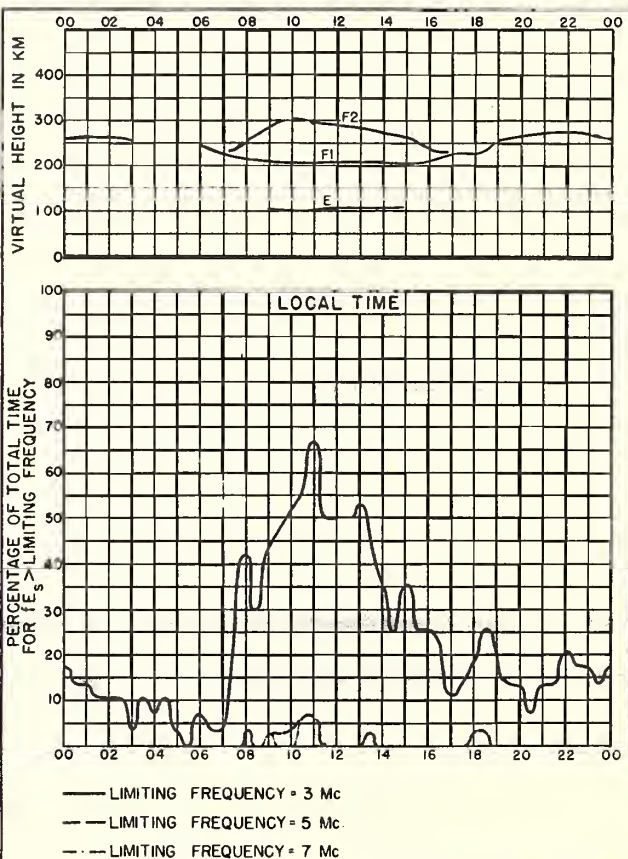
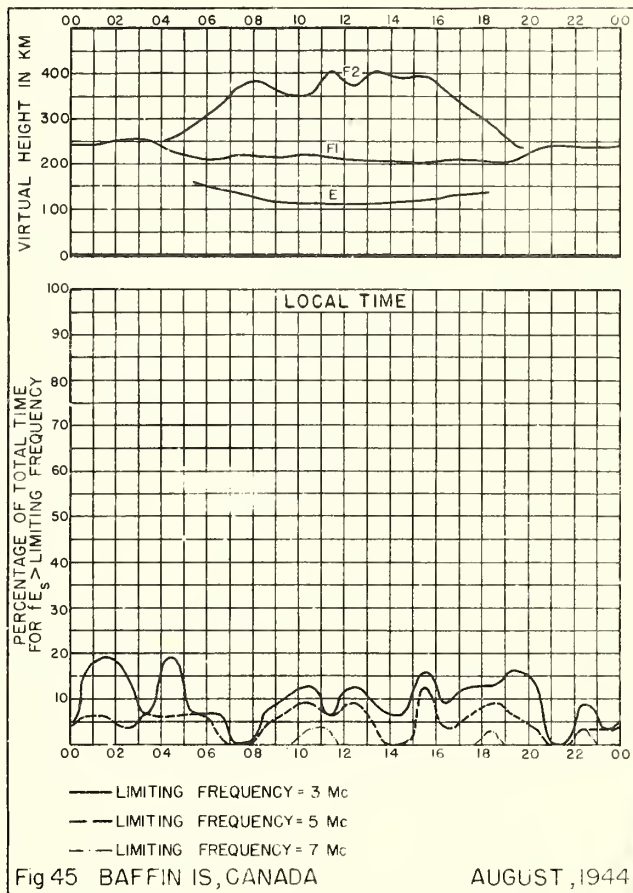
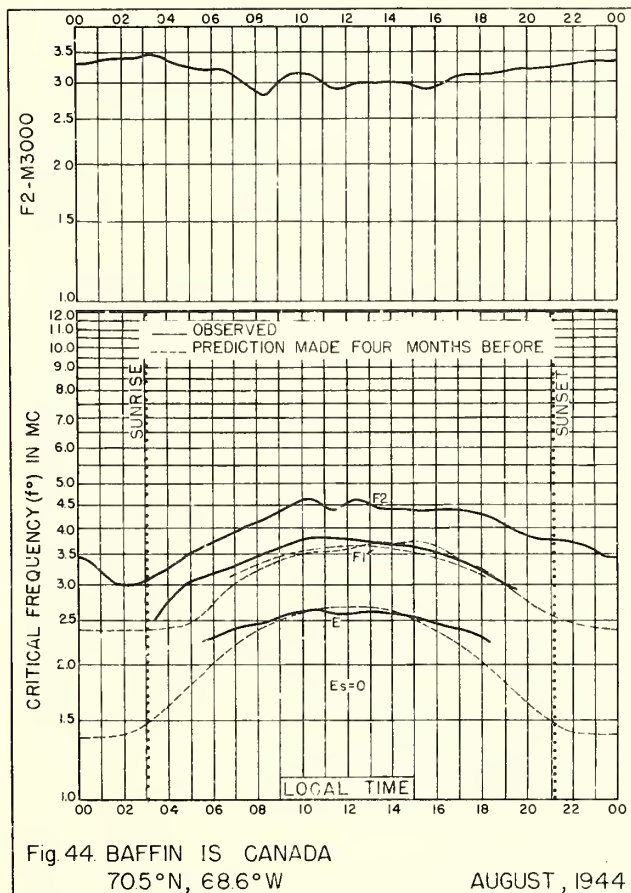
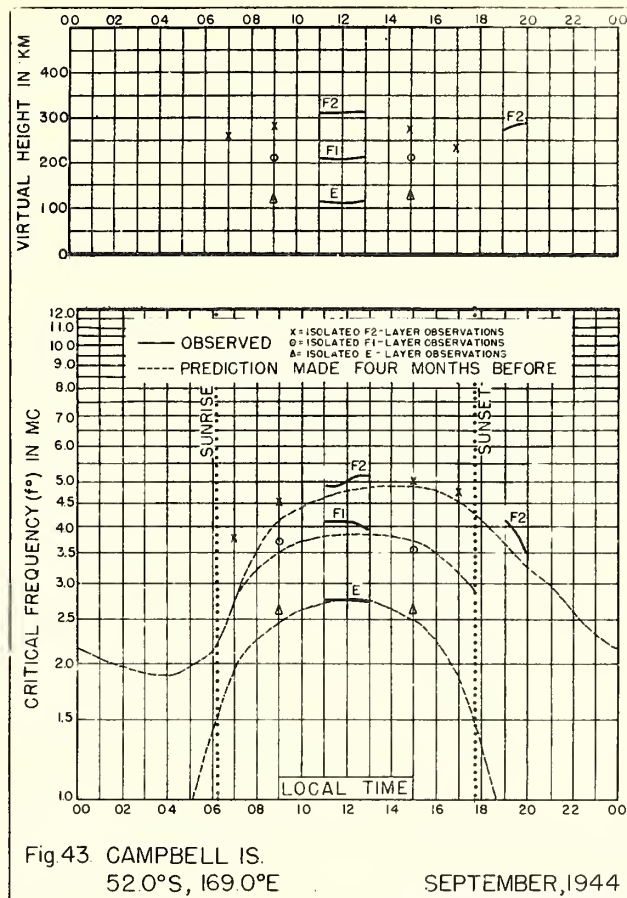
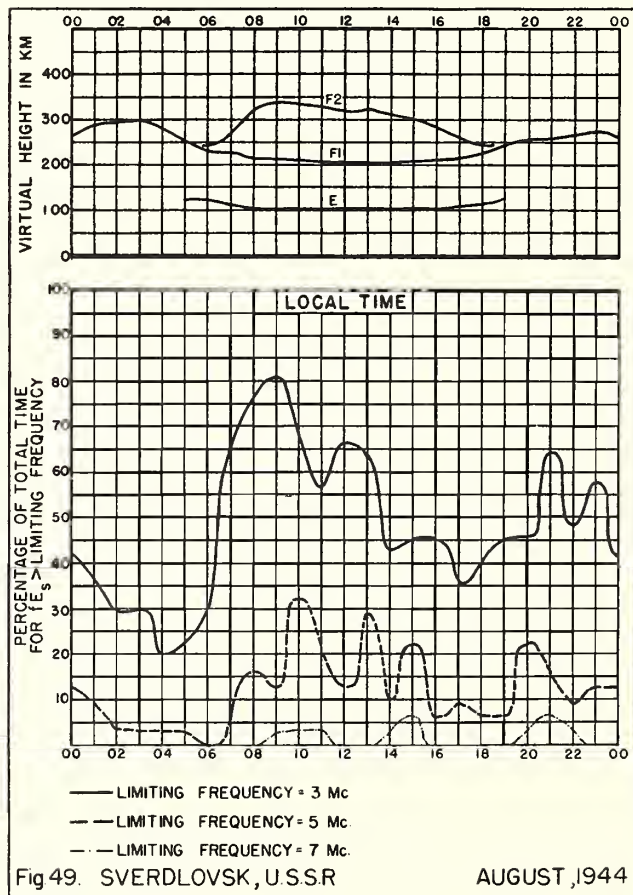
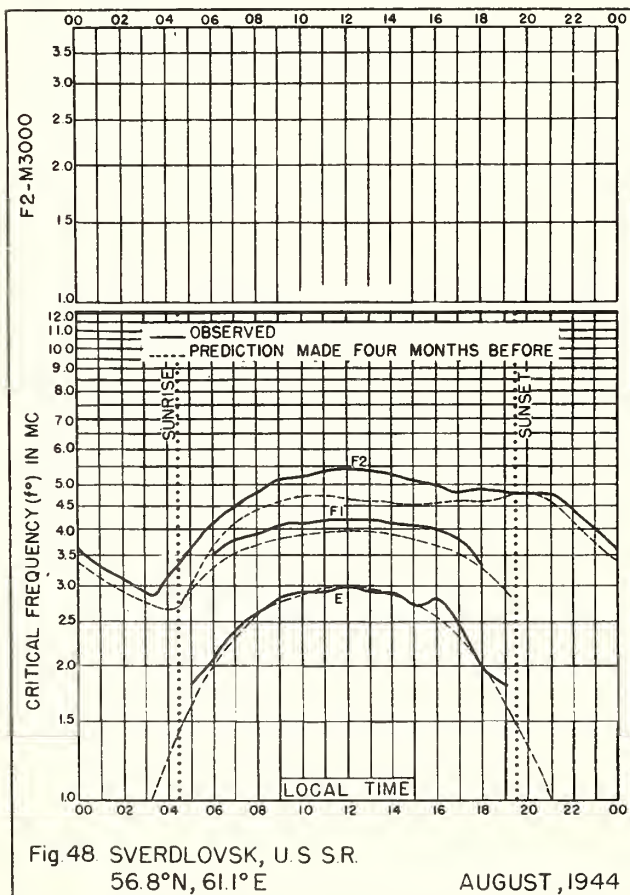
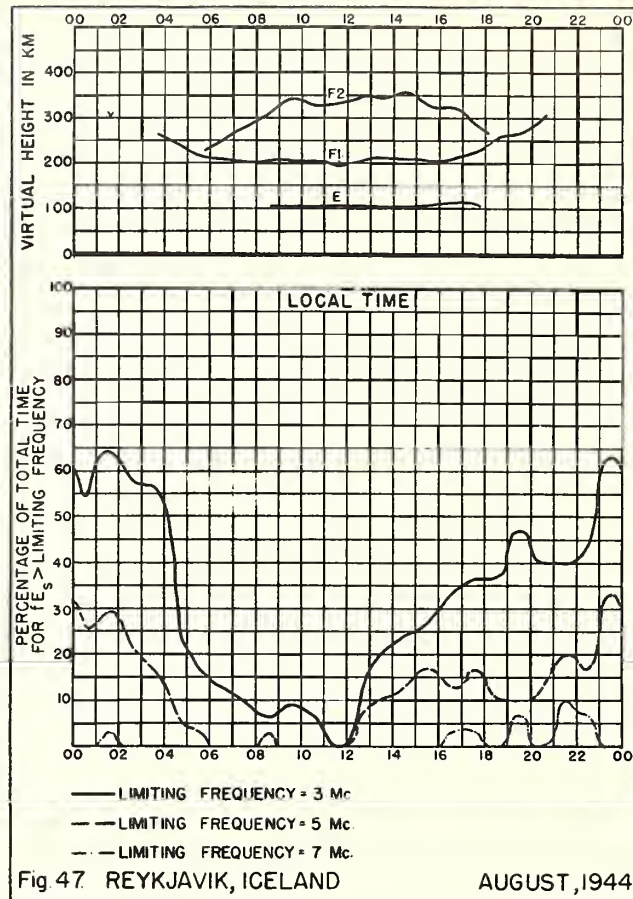
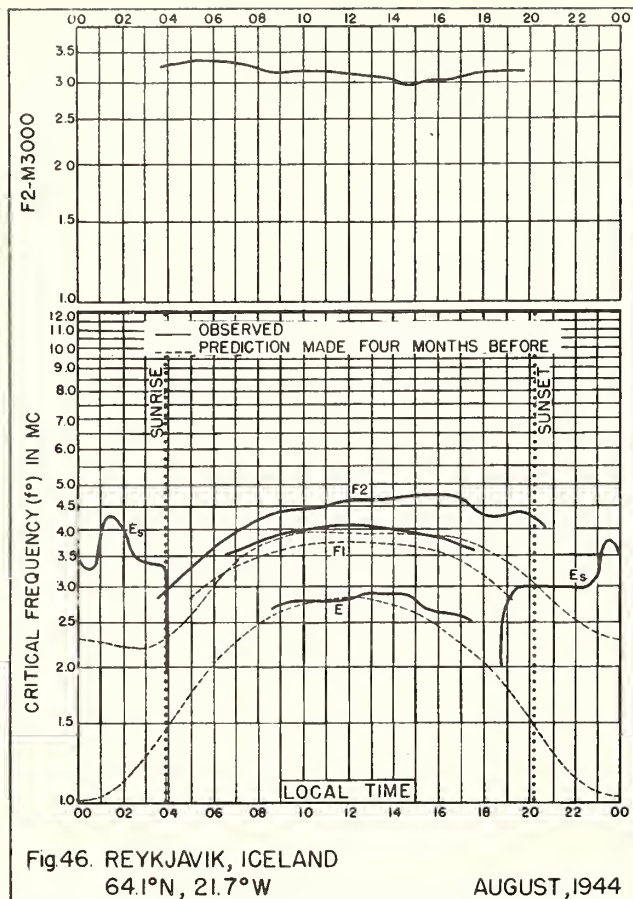
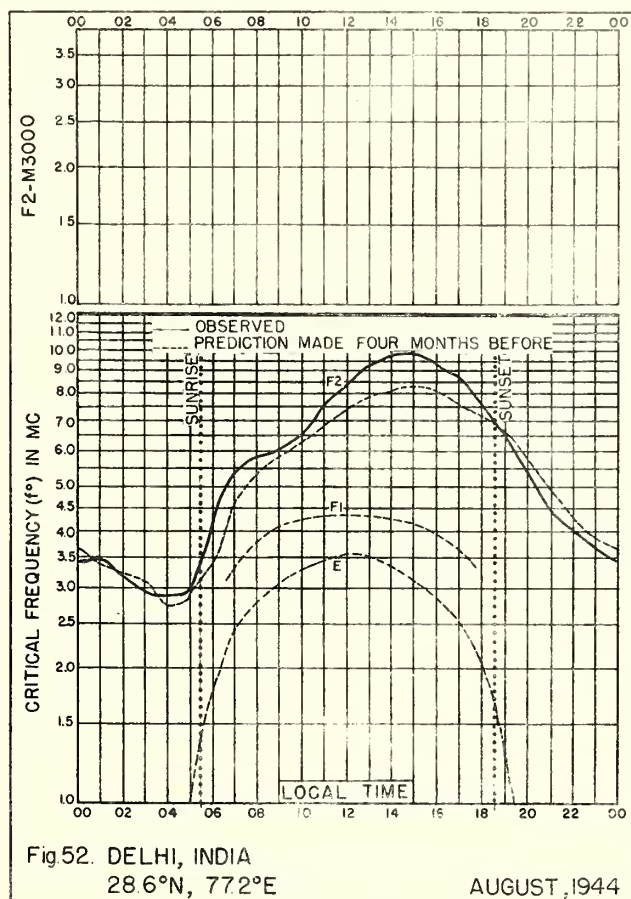
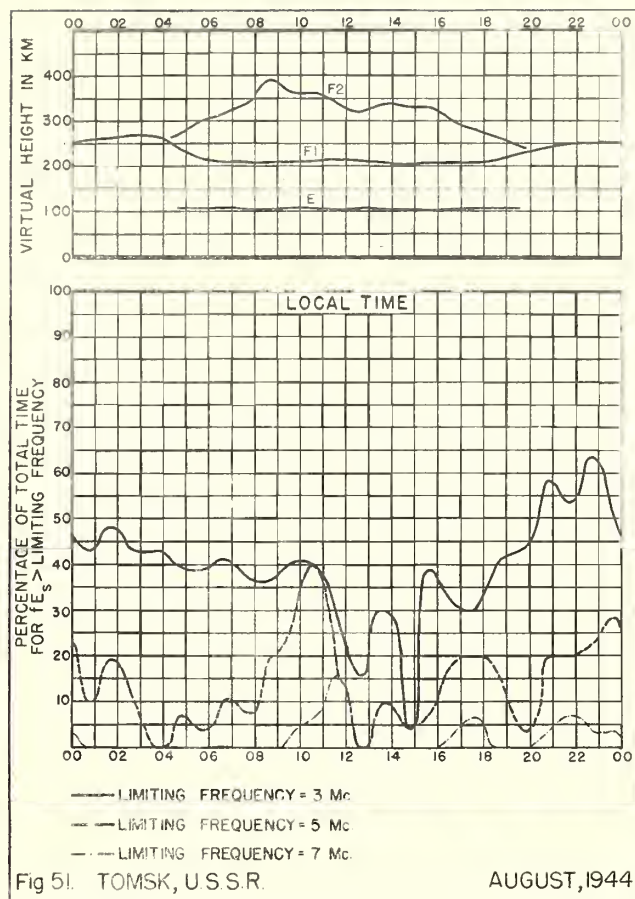
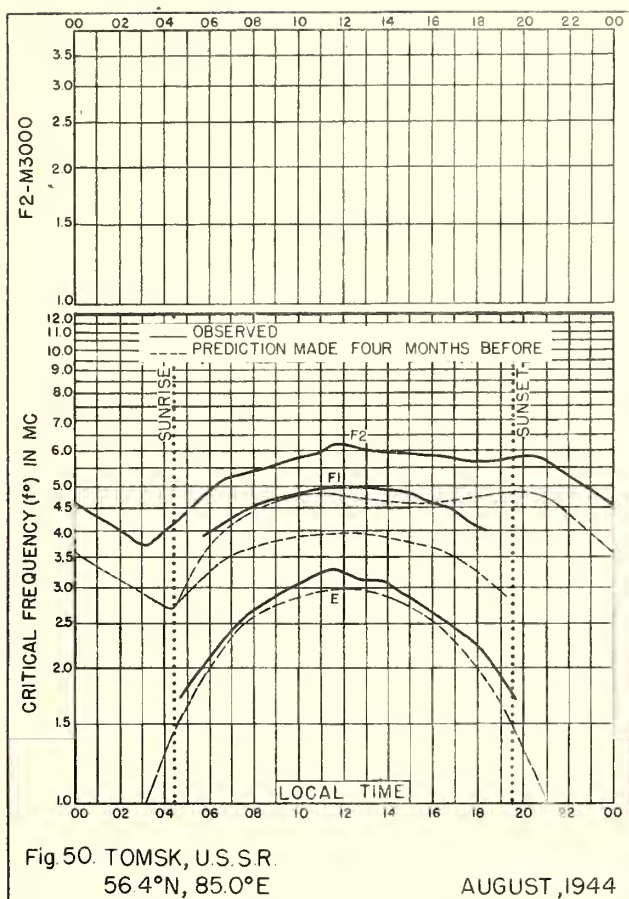
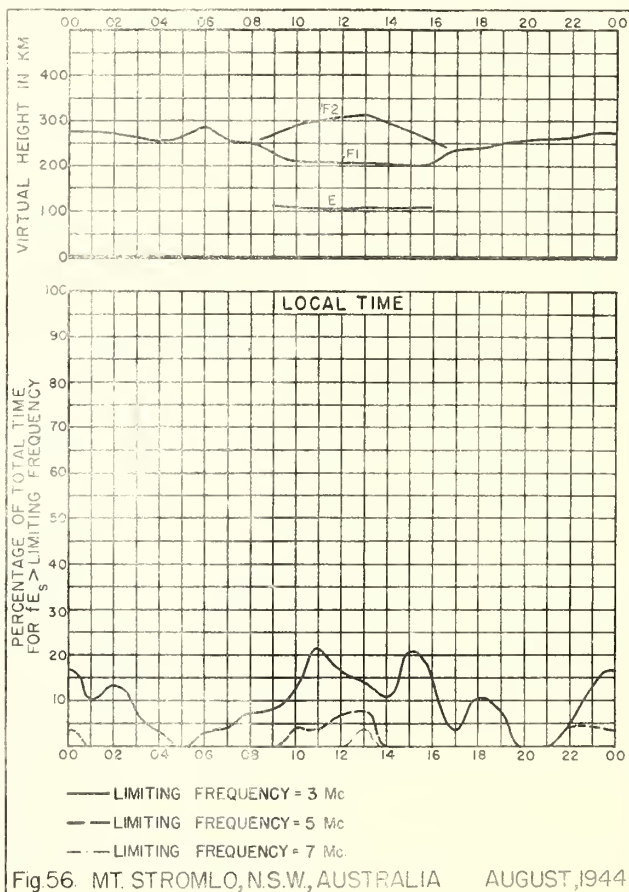
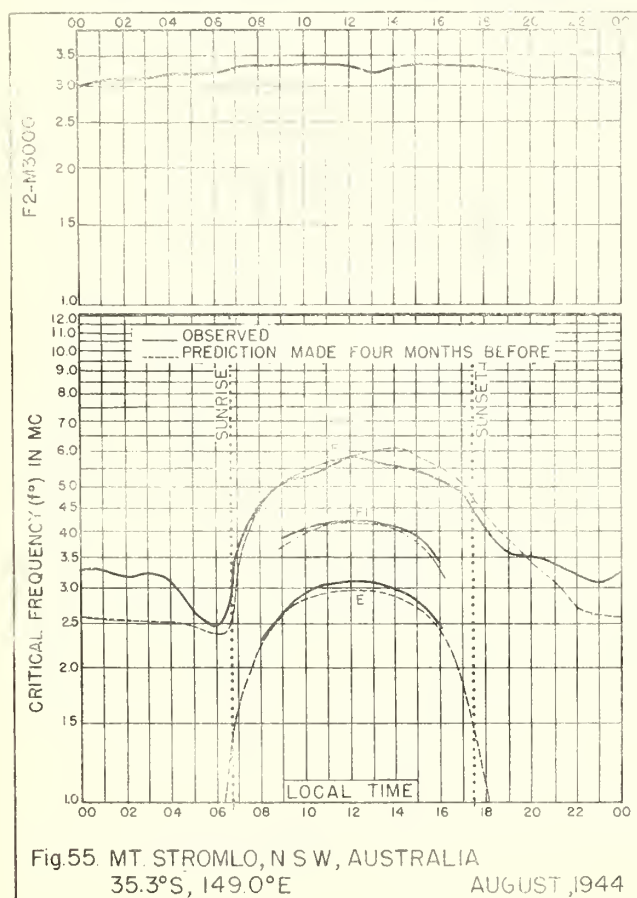
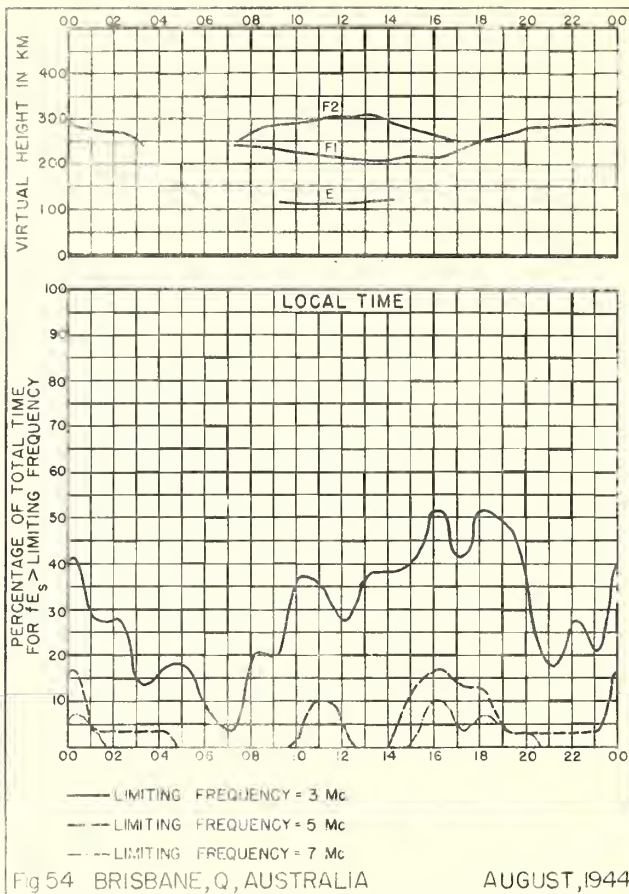
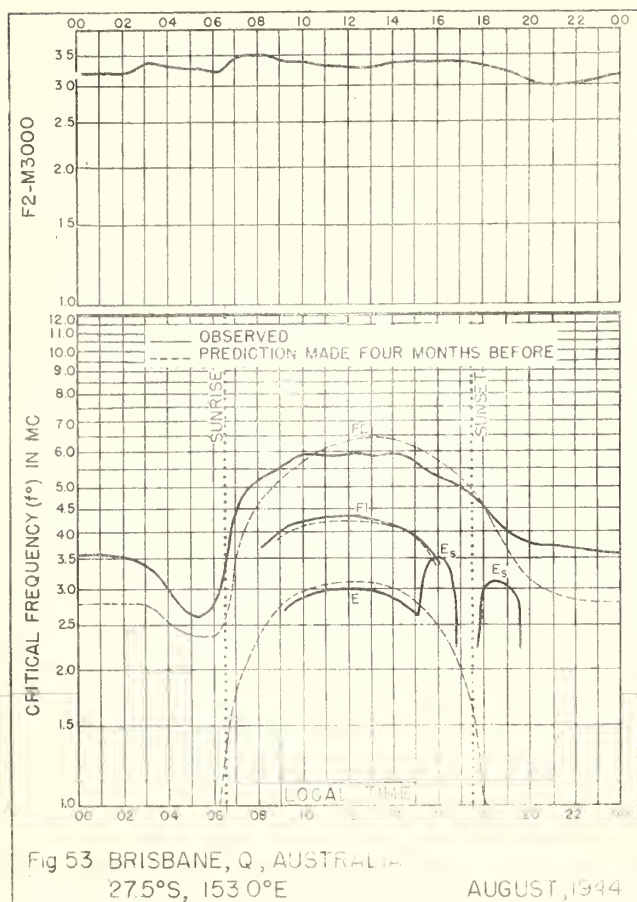


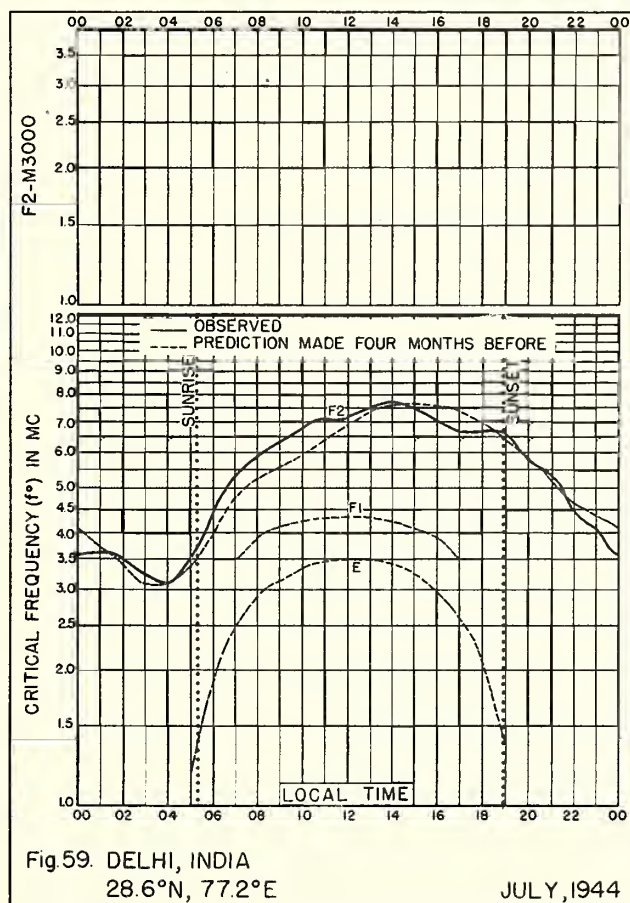
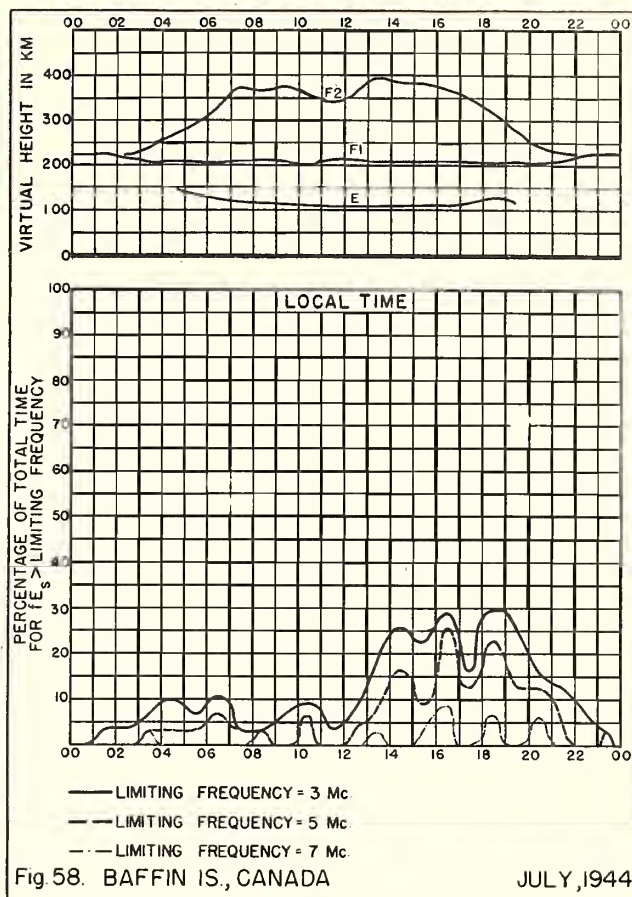
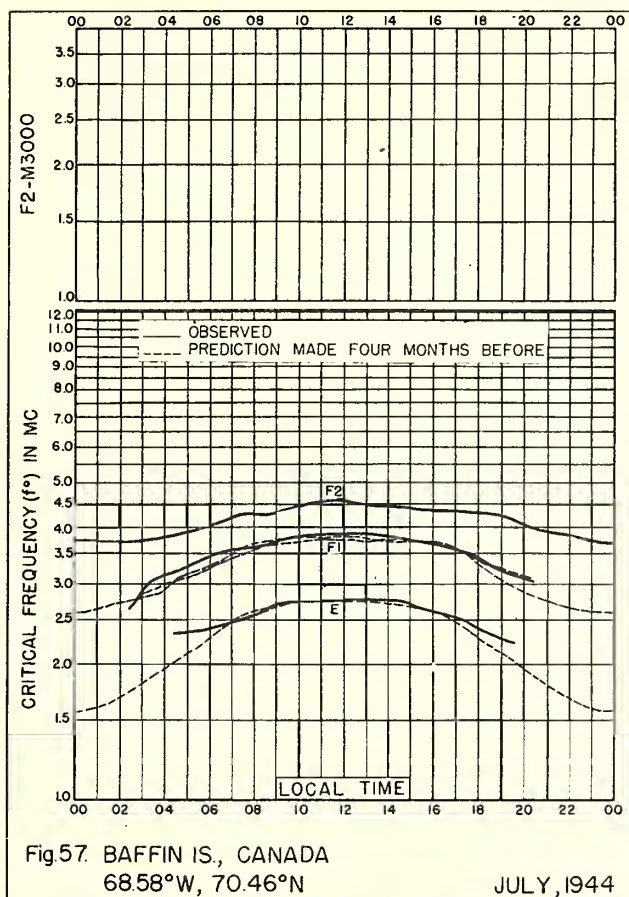
Fig. 42. CHRISTCHURCH, NEW ZEALAND SEPTEMBER, 1944

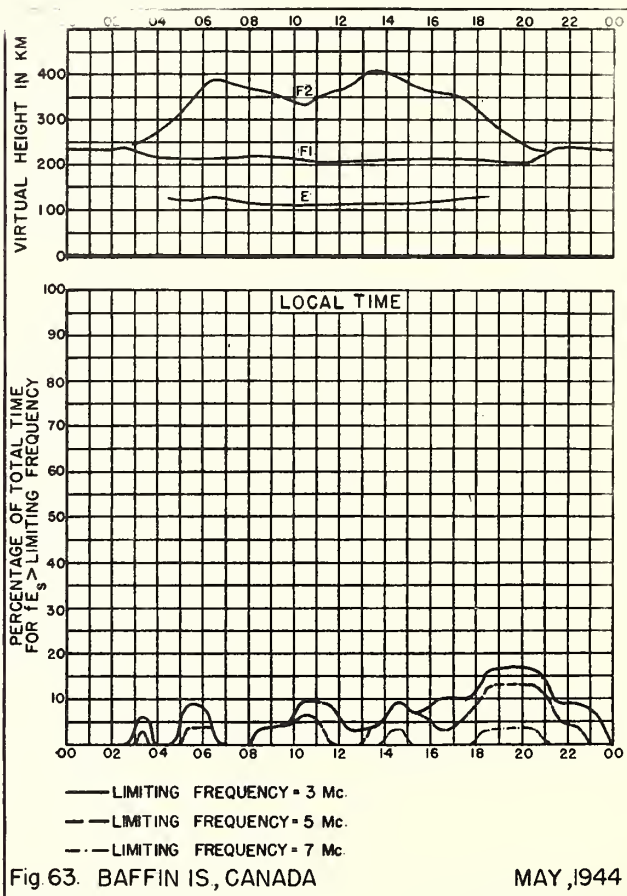
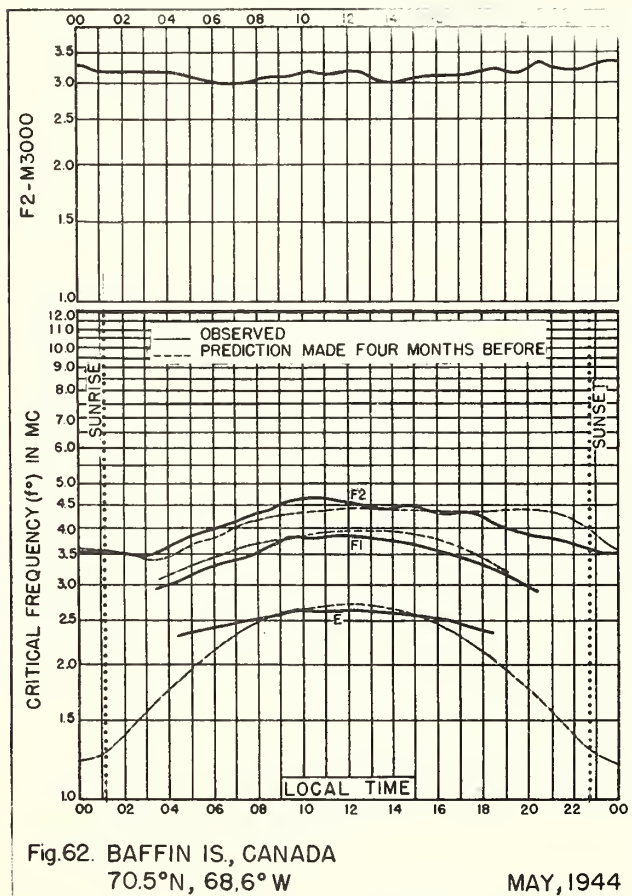
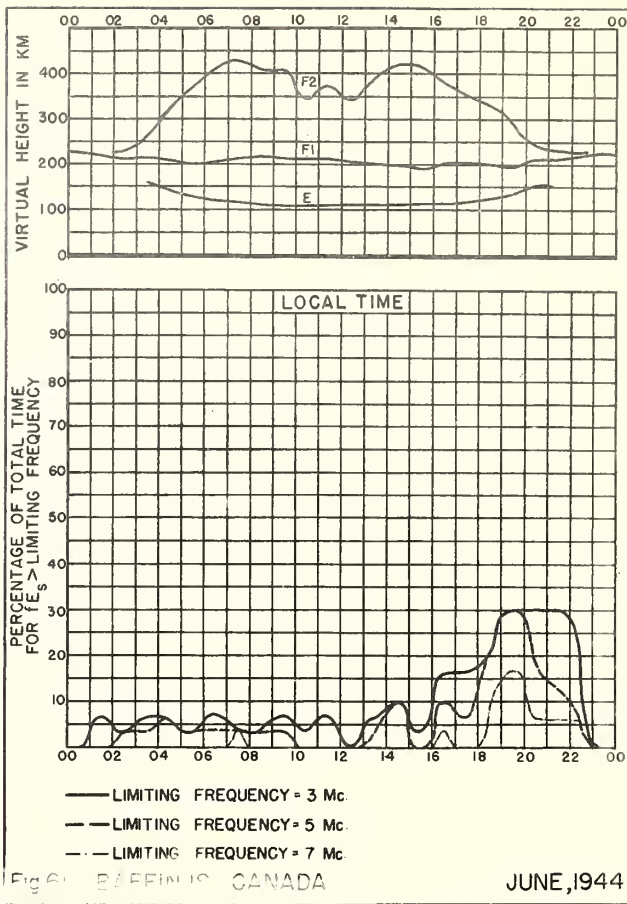
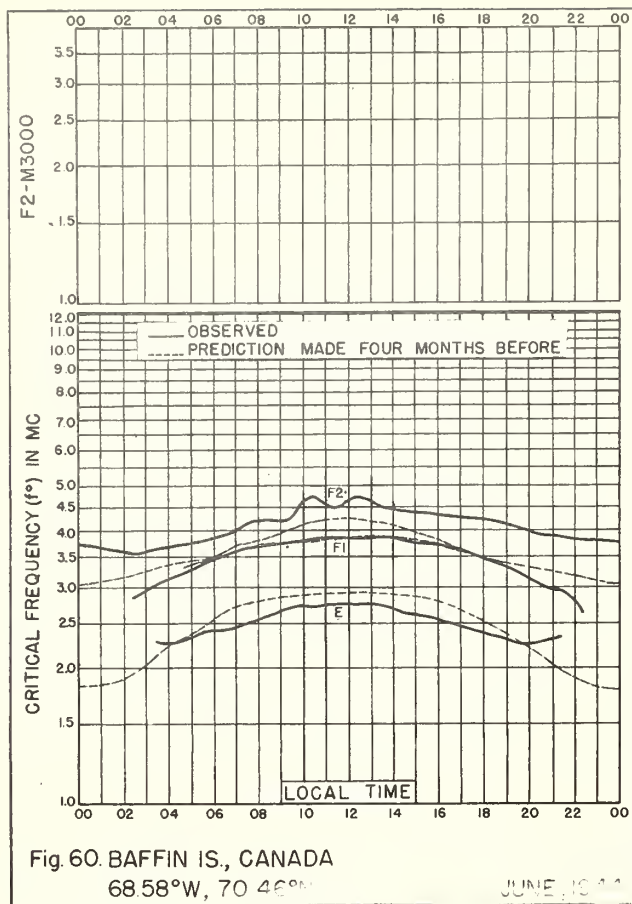


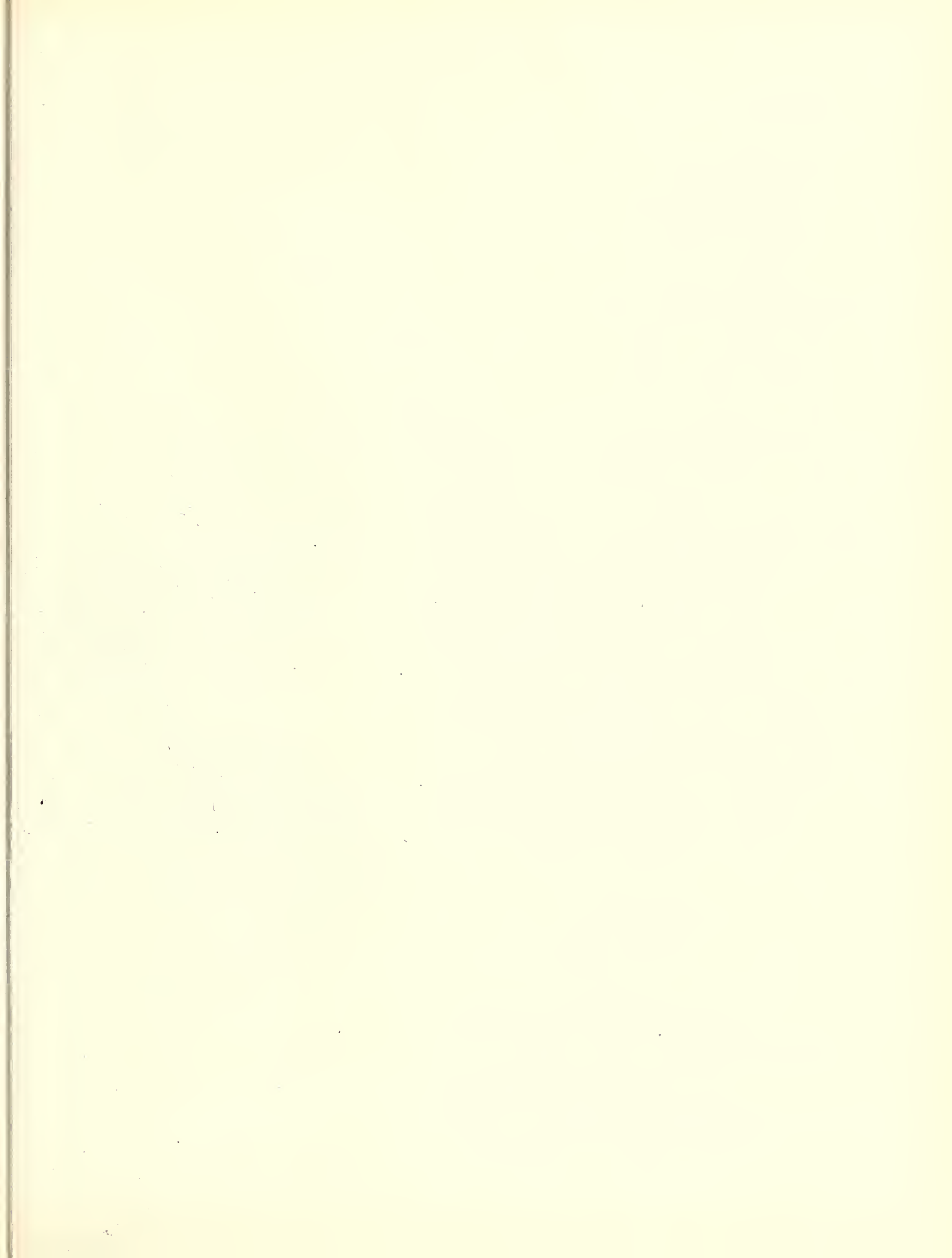












Daily

Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data from various places.
Radio disturbance warnings.

Weekly

IRPL-J. Radio Propagation Forecast.

Monthly

IRPL-D. Basic Radio Propagation Conditions - Three months in advance.
IRPL-E. Radio Propagation Predictions - One month in advance.
IRPL-F. Ionospheric Data.

Bimonthly

IRPL-G. Correlation of D.F. Errors with Ionospheric Conditions.

Quarterly

IRPL-A. Recommended Frequency Bands for Ships and Aircraft in the Atlantic and Pacific.
IRPL-B. Recommended Frequency Bands for Submarines in the Pacific.
IRPL-K. Best Radio Frequencies for Aircraft and Ground Stations in the Atlantic.
IRPL-M. (WIMS APPENDIX N) Frequency Guide for Merchant Ships.

Semiannual

IRPL-H. Frequency Guide for Operating Personnel.

Special Reports, etc.

IRPL Radio Propagation Handbook, Part 1.
IRPL-C1 through C61. Reports and papers of the International Radio Propagation Conference, 17 April to 5 May 1944.
IRPL-R. Unscheduled reports.
R1. Maximum Usable Frequency Graph Paper.
R2 and R3. Obsolete.
R4. Methods Used by IRPL for Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.
R5. Criteria for Ionospheric Storminess.
R6. Experimental studies of ionospheric propagation as applied to a navigation system.
R7.. Further studies of ionospheric propagation as applied to a navigation system.
R8. The Prediction of Usable Frequencies over a Path of Short or Medium Length, Including the Effects of Es.
IRPL-T. Reports on Tropospheric Propagation.
T1. Radar Operation and Weather. (Superseded by JANP 101).
T2. Radio coverage and weather. (Superseded by JANP 102).

